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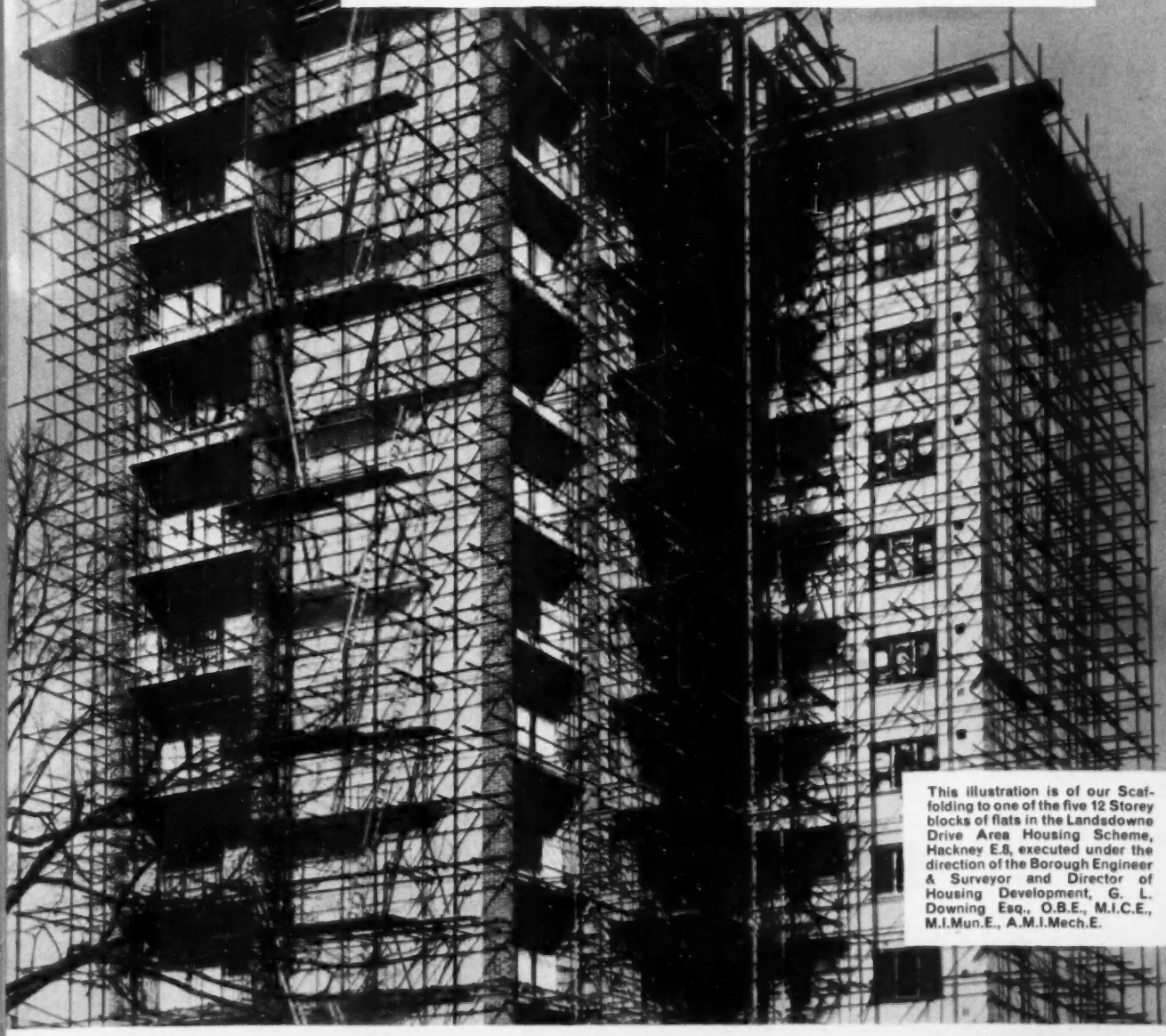
A NEWSPAPER FOR THE ARCHITECT AND CONSTRUCTOR

NO. 6115 118TH YEAR. FRIDAY, JULY 29, 1960 Price 1/6.



This illustration is of our Scaffolding to one of the five 12 Storey blocks of flats in the Landsdowne Drive Area Housing Scheme, Hackney E.8, executed under the direction of the Borough Engineer & Surveyor and Director of Housing Development, G. L. Downing Esq., O.B.E., M.I.C.E., M.I.Mun.E., A.M.I.Mech.E.

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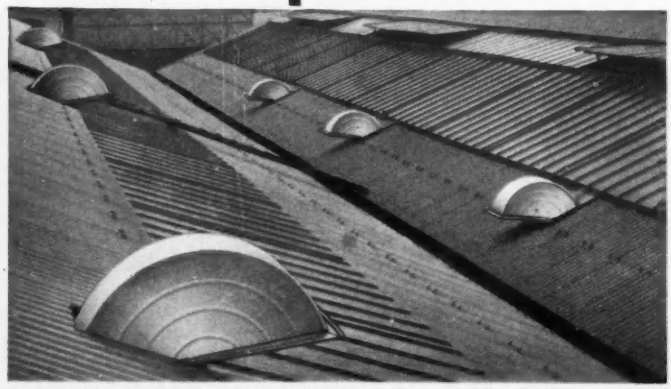

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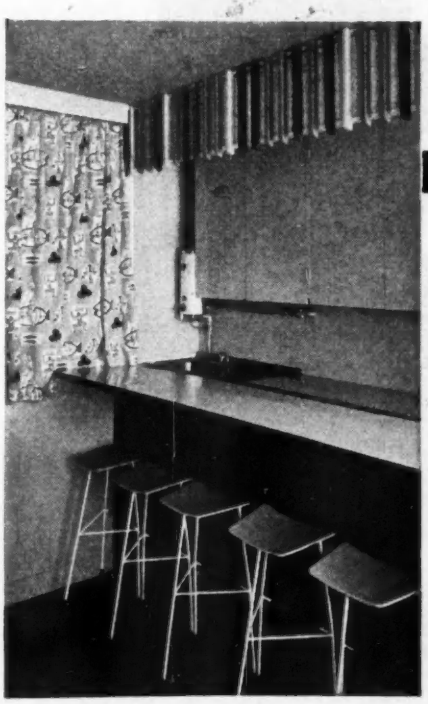

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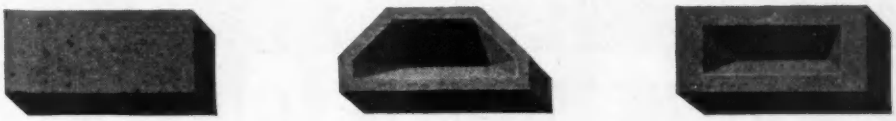

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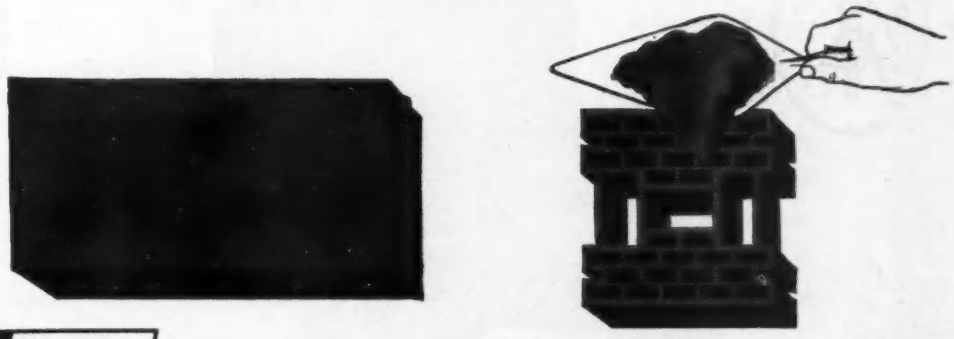

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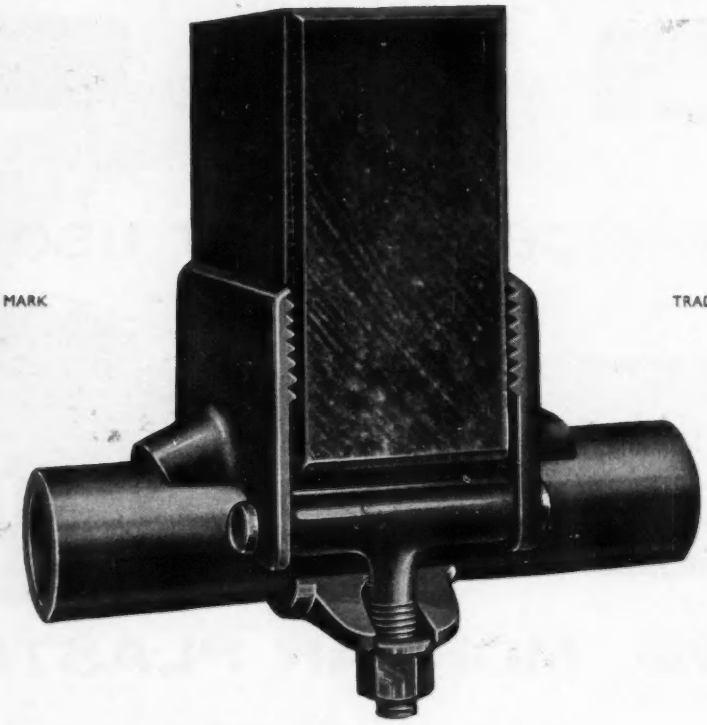

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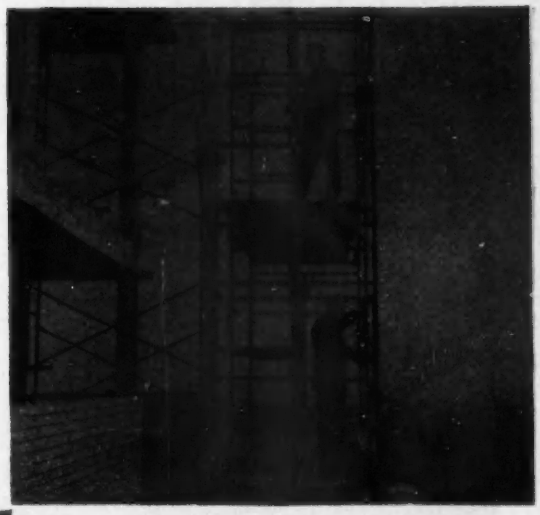

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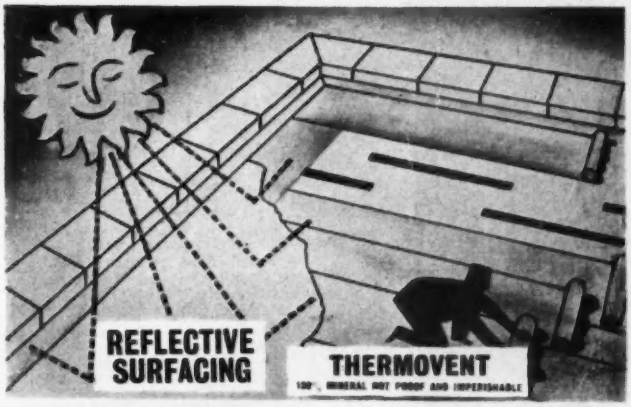
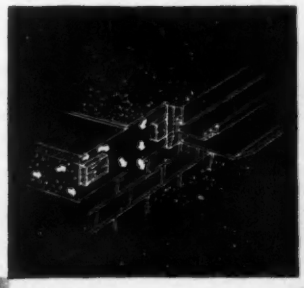
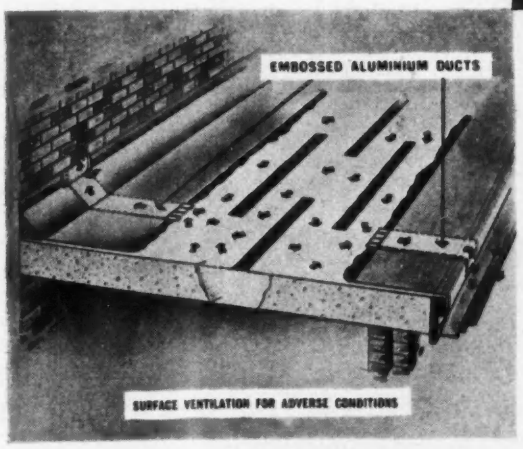


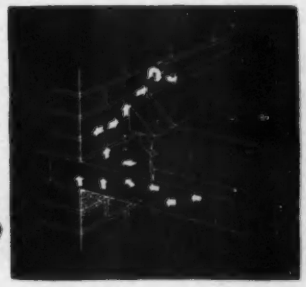
Where conditions are adverse surface ventilation is provided and metal ducts are fixed to relieve pressure to the outside air.



Drying in depth for extreme conditions is arranged at planning stage.



Typical detail is shown but others are available to suit design and advice will be given on request.



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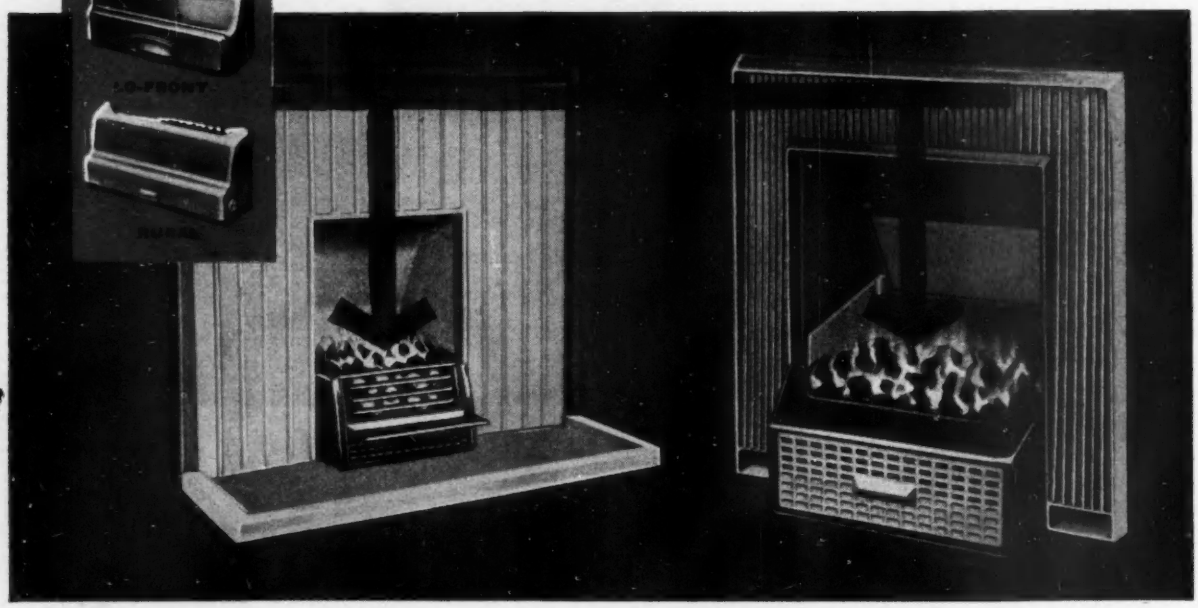

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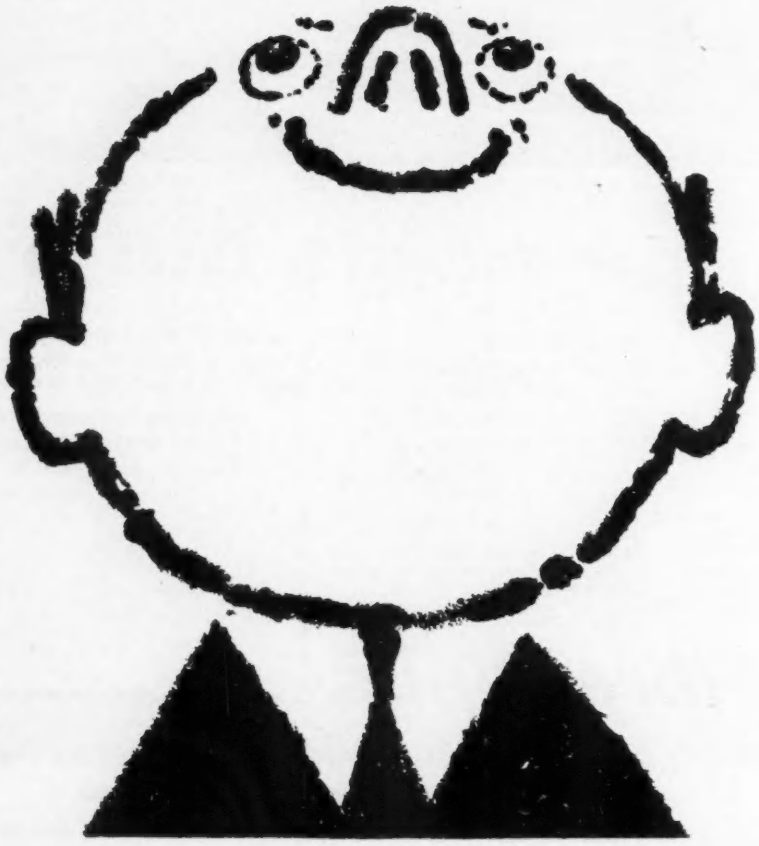

THE BRITISH PLASTER BOARD (Manufacturing) LTD. Ferguson House, 15-17 Marylebone Road, London, N.W.1.

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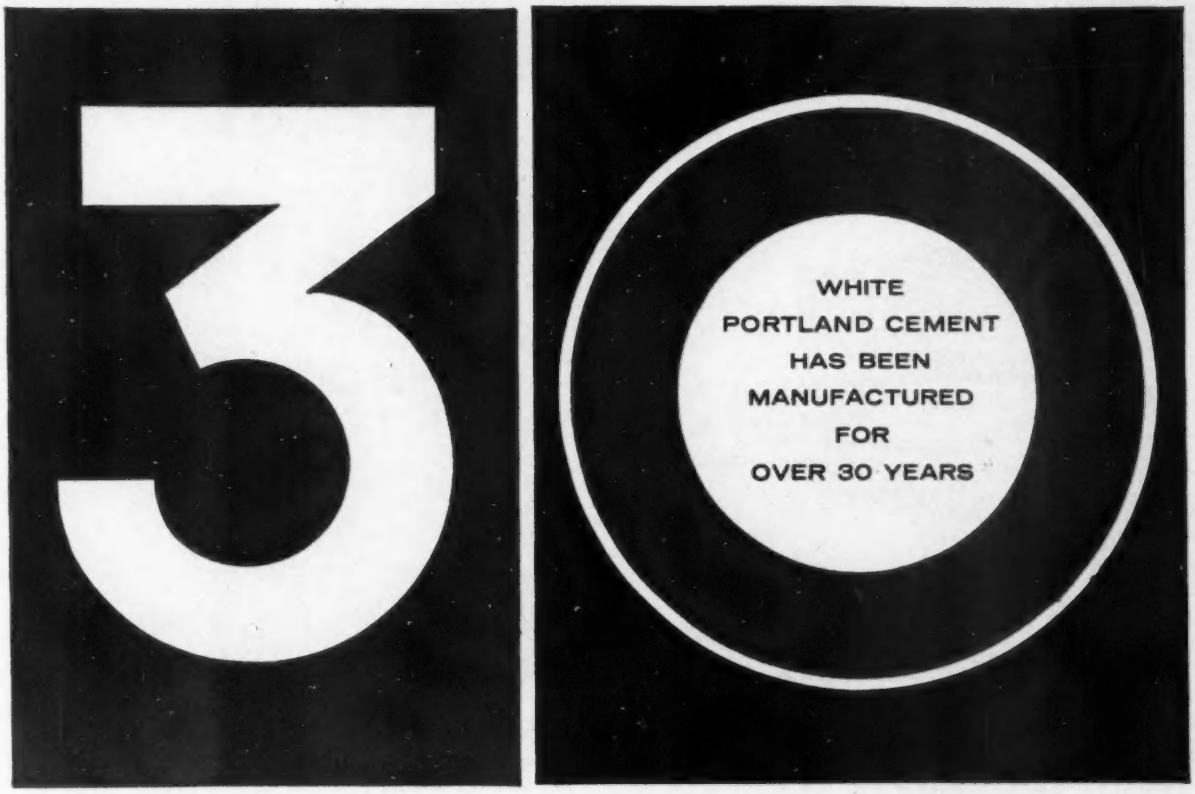

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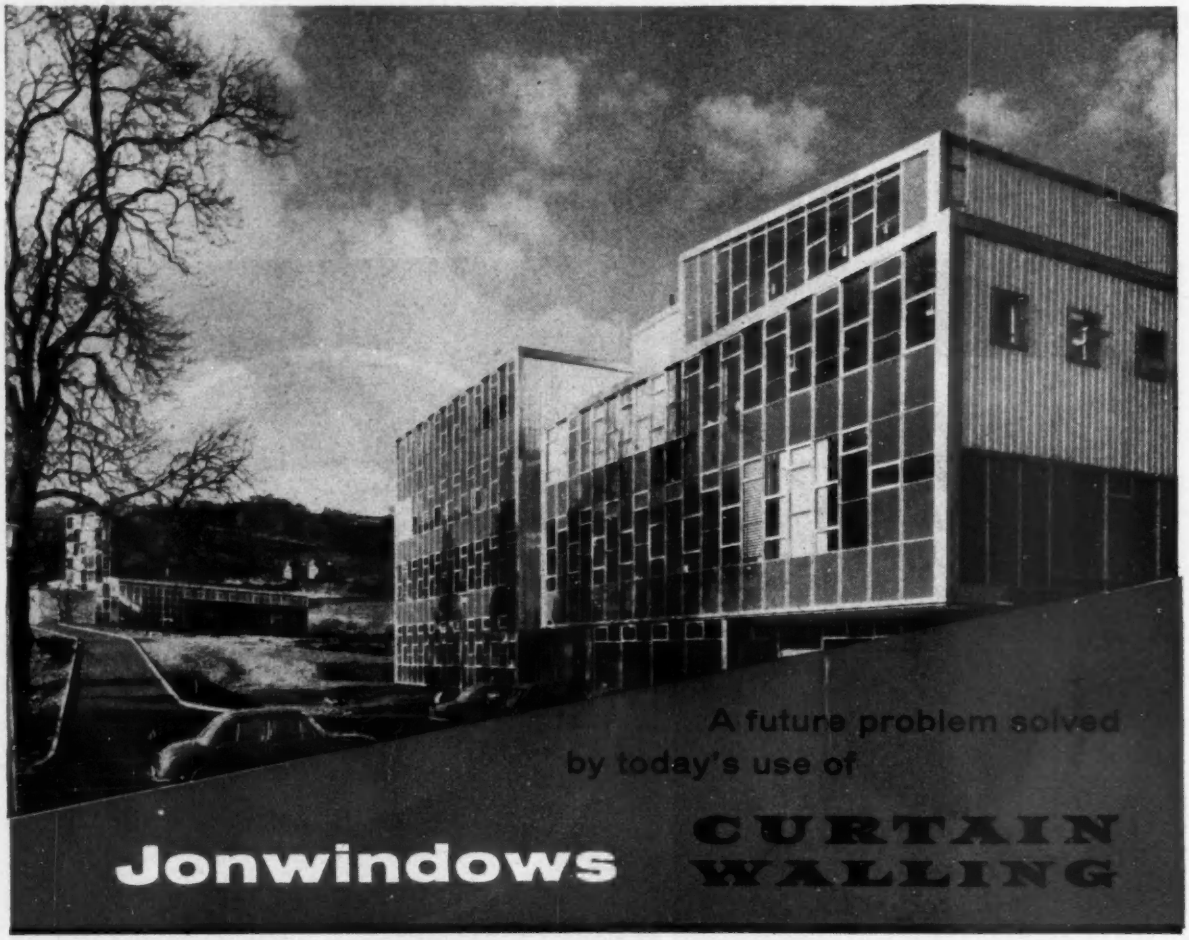

The Ystrad Mynach College of Further Education

This building is situated in a predominantly mining and industrial district, so precautions had to be taken against possible future subsidence. The result is a rigid structure bearing on the ground at a limited number of points, with facilities provided for re-levelling the building by hydraulic jacks. The ground floor slab is not suspended as is the moving superstructure.

To keep the load on the foundation beam as light as possible, Jonwindows Curtain Walling was chosen for the external cladding. Fixing the curtain walling involved many problems. In the first place it hangs from the upper floors and does not even rest on the ground floor slab, being merely anchored there to resist wind and weather. A special sliding joint to allow vertical movement had to be provided at the point of connection between curtain walling and ground floor slab.

Another difficulty is that the 4-storey teaching block is actually two buildings entirely separated by a 3" structural break and which could move either towards or away from each other in the event of subsidence. Curtain walling was even used at this break, a weathered sliding joint in pressed metal trims (a breather joint) being designed to allow for movement—and this joint had to be incorporated wherever the break line was crossed by the curtain walling; in fact it was required in blind boxes, cills, etc., as well, for they had been made firm fixtures to the hanging curtain.

These are but two examples of the difficulties which had to be overcome in one particular job, but Jonwindows Curtain Walling has been developed through such work as this.

The Jonwindows range of standard and purpose-made metal windows and curtain walling will continue to satisfy today's needs and anticipate the needs of tomorrow.

Architects: T. Alwyn Lloyd & Gordon, F/A.R.I.B.A.

(*Associate-in-charge:* Alun Roberts, B. Arch., A.R.I.B.A.)

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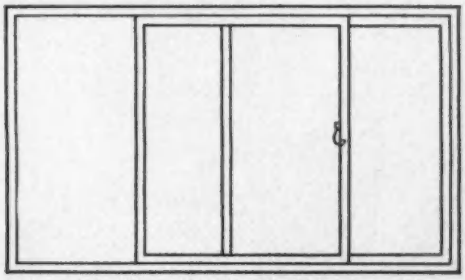
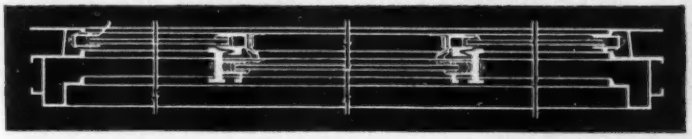
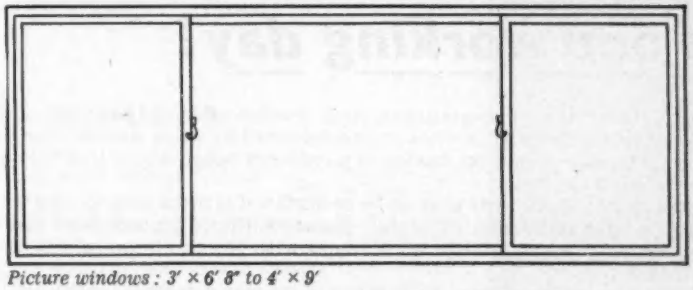
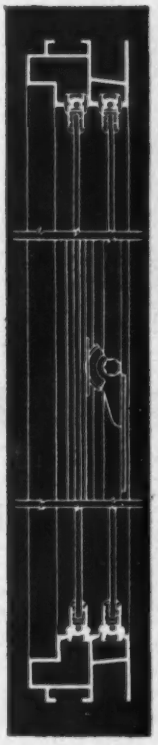


Horizontal sliding: 3′ × 3′ to 4′ × 6′





Picture windows: 3′ × 6′ 8″ to 4′ × 9′



Permatite Sliding Windows are right in line with today's trend in clean, functional design. They offer no obstruction, give greatest field of vison and light inlet, and have no projecting casements to hinder passers-by. Sashes are easily removed from frames for cleaning—a considerable economy and convenience. Sashes move smoothly and silently on zinc runners between stainless steel guides. Completely weathertight, will not warp, rattle or rust. Based on successful U.S. designs, Permatite Sliding Windows are ideal for schools, offices, hospitals, flats.

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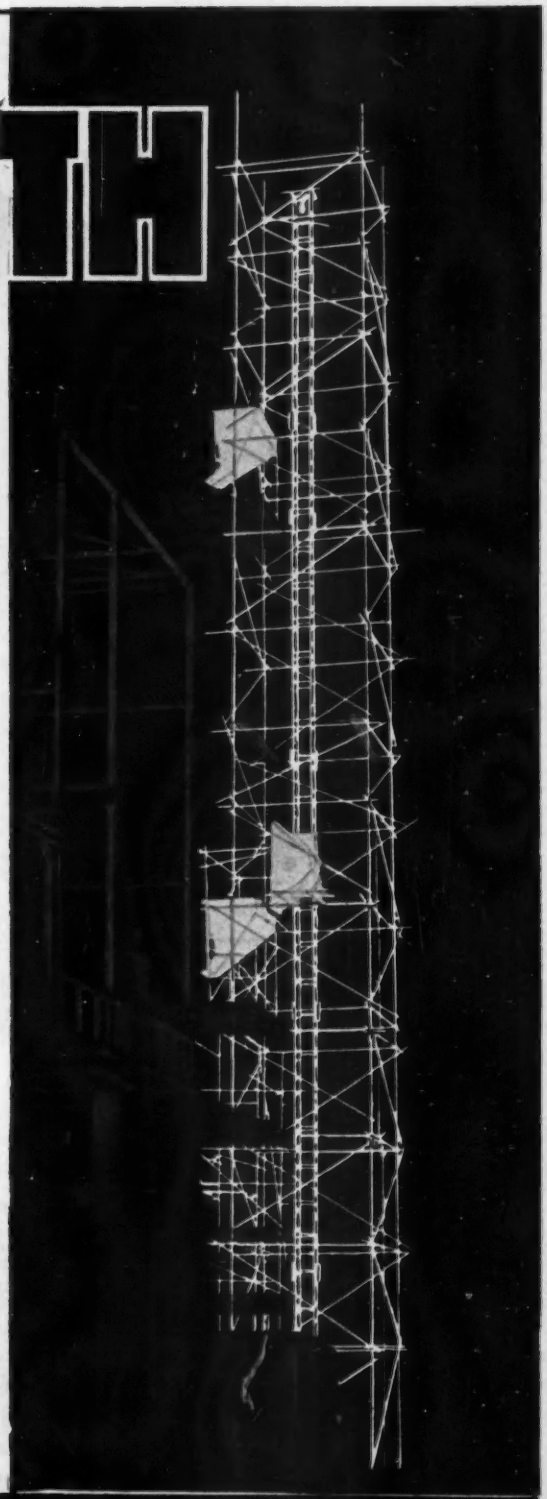

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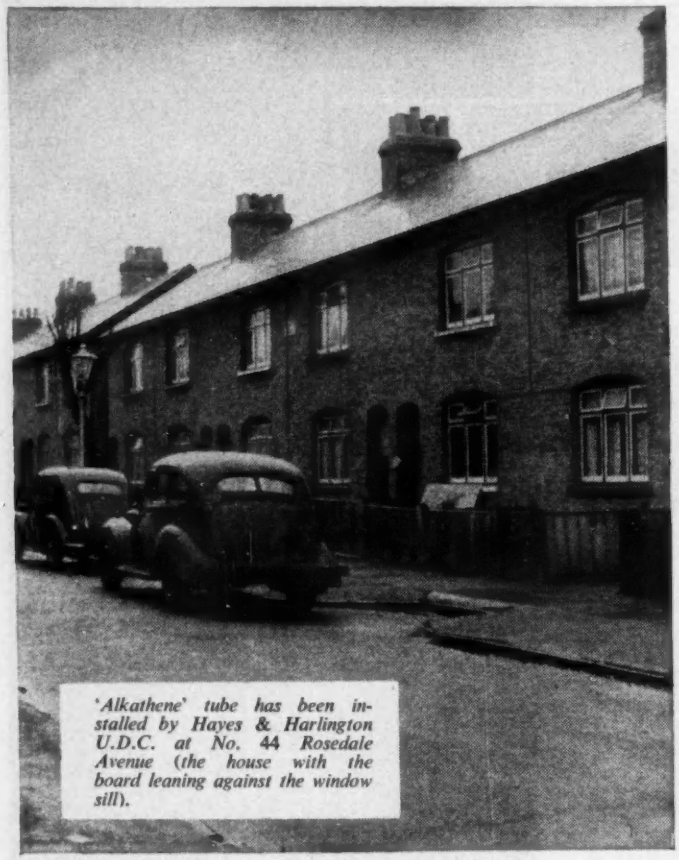
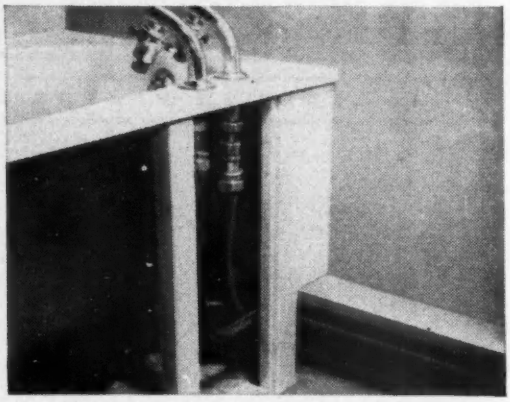


'Alkathene' tube has been installed by Hayes & Harlington U.D.C. at No. 44 Rosedale Avenue (the house with the board leaning against the window sill).

Hayes and Harlington U.D.C. modernise with 'Alkathene' tube



Cold water rising main in 'Alkathene' tube, with "Instantor" fittings. Also 'Alkathene' tube cold water feed to U.D.B. Unit.

HAYES & HARLINGTON U.D.C. recently installed 'Alkathene' tube as part of a modernisation project. They chose 'Alkathene' tube because it is ideal for cold water plumbing.

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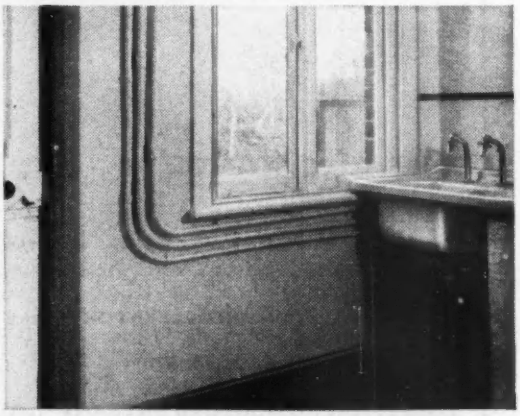
'Alkathene' tube is used with standard metal fittings. It is available in lengths up to 500 ft. and conforms to B.S. 1972 : 1953. The certification mark below of the British Standards Institution is the only independent guarantee that it does conform to the standard.



'Alkathene' tube cold water service with "Instantor" Coupling to Supatap. Part of modernisation to 44 Rosedale Avenue for Hayes & Harlington U.D.C.

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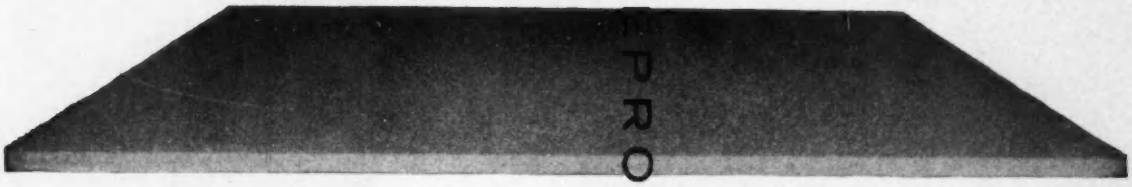

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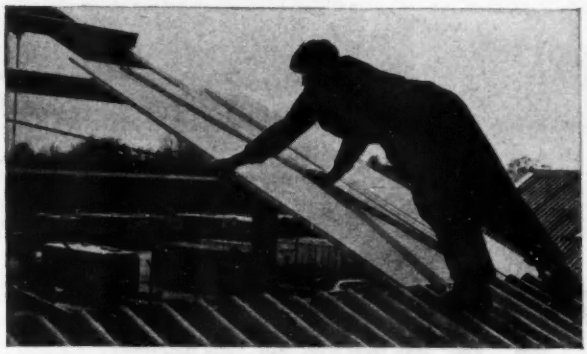

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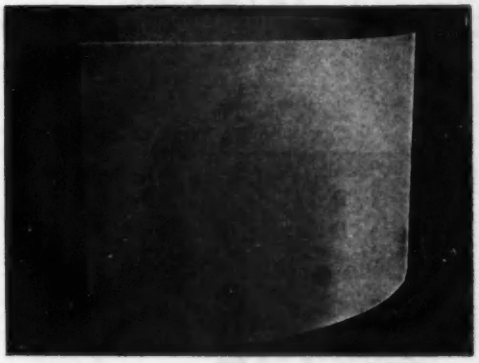

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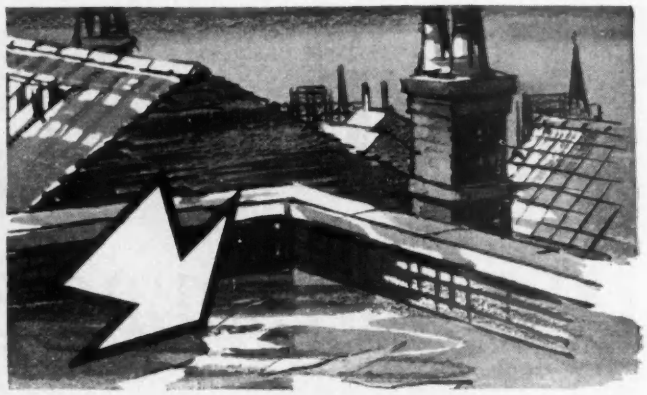

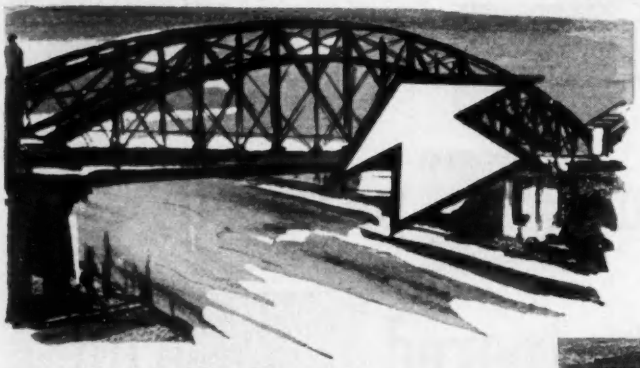

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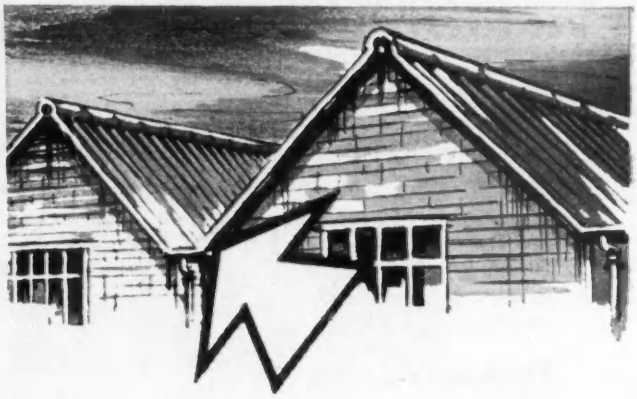

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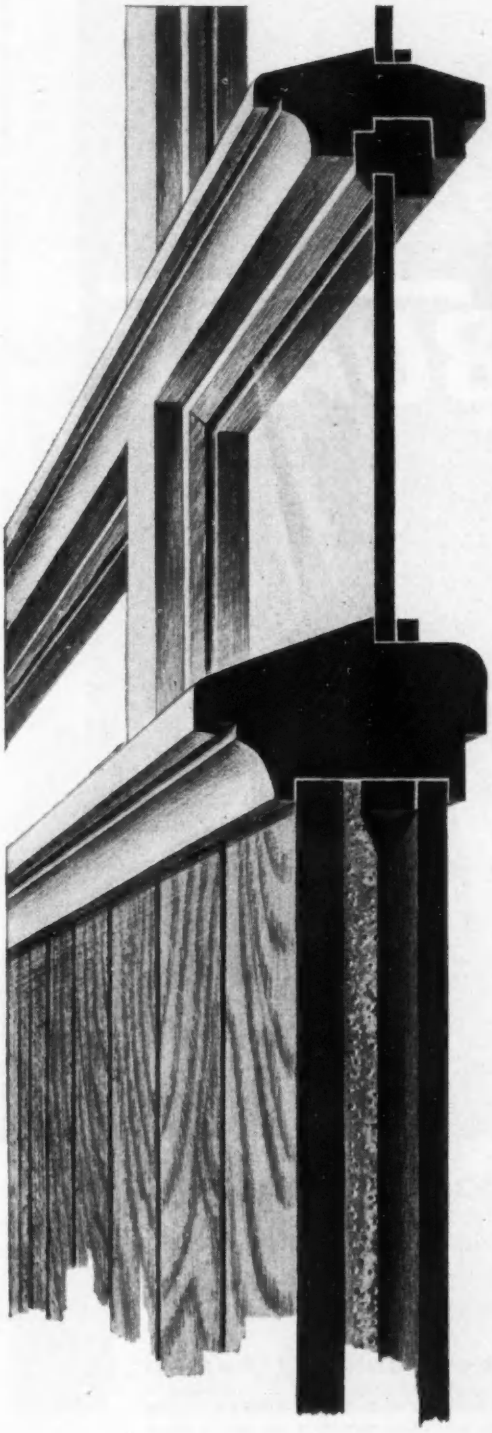

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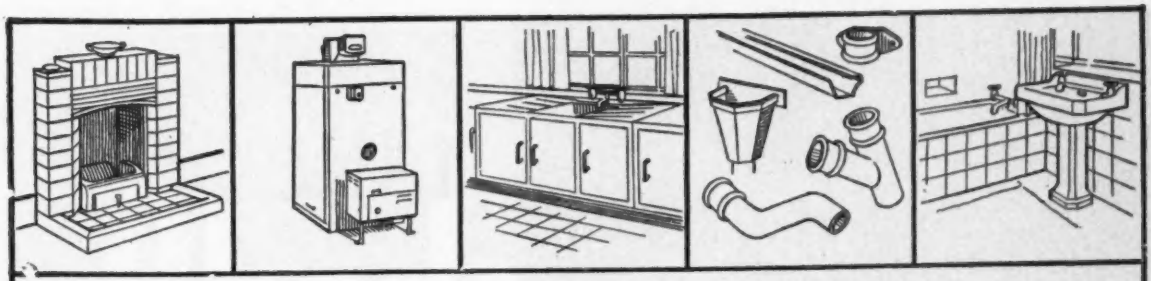

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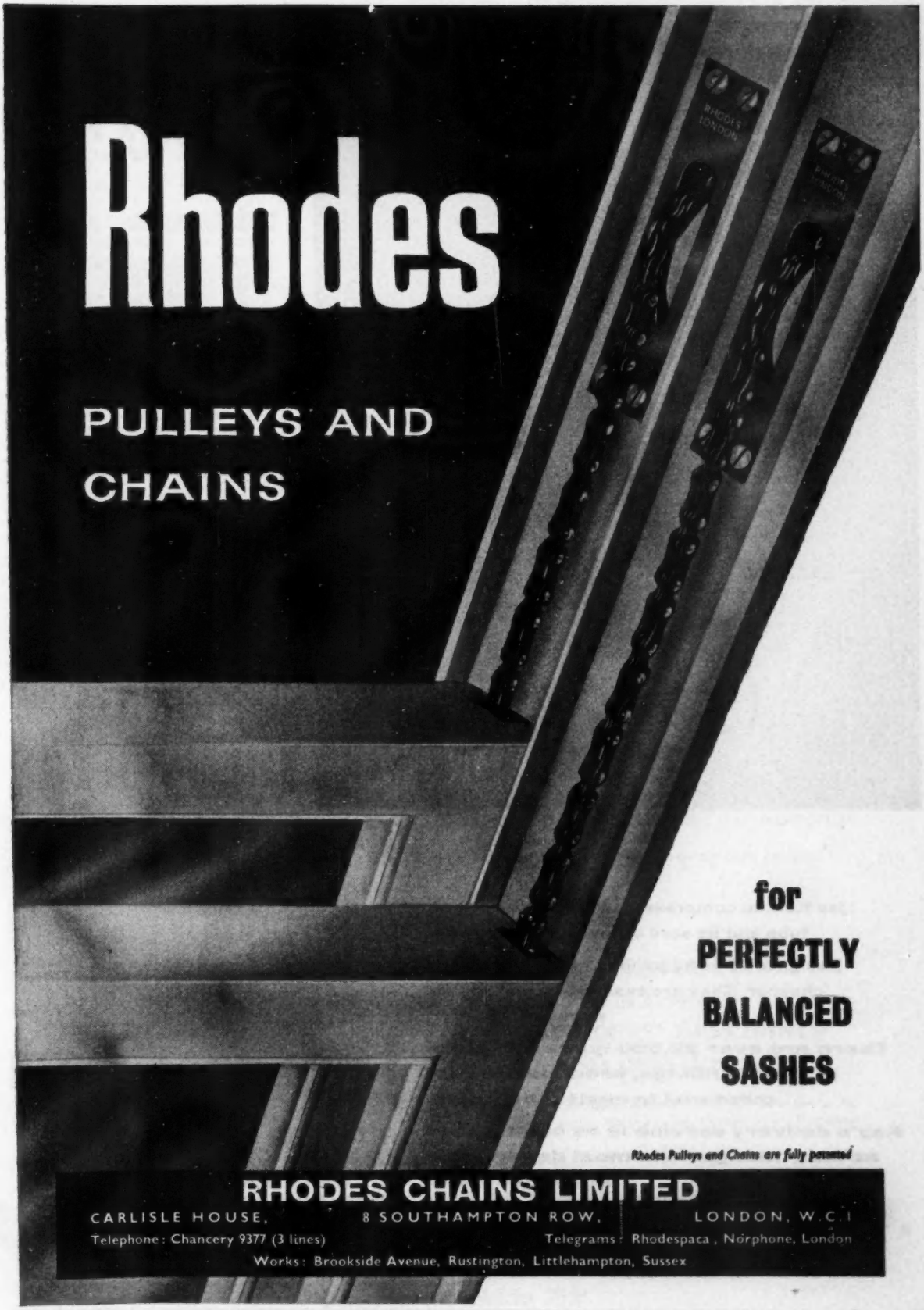

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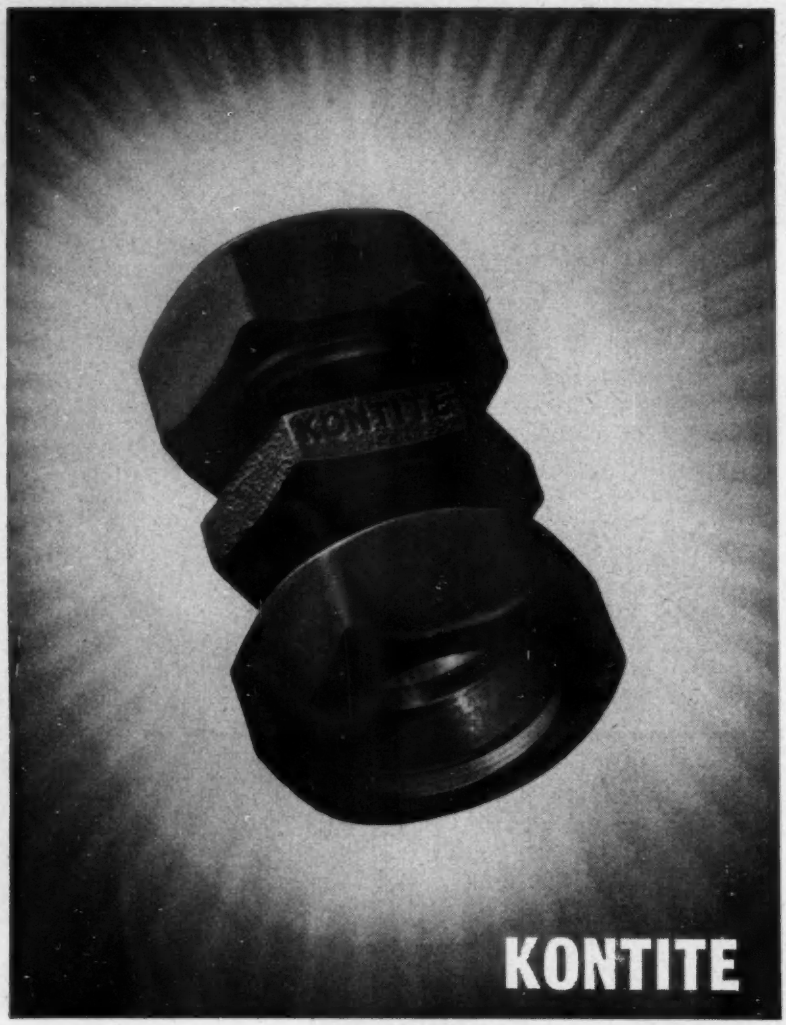

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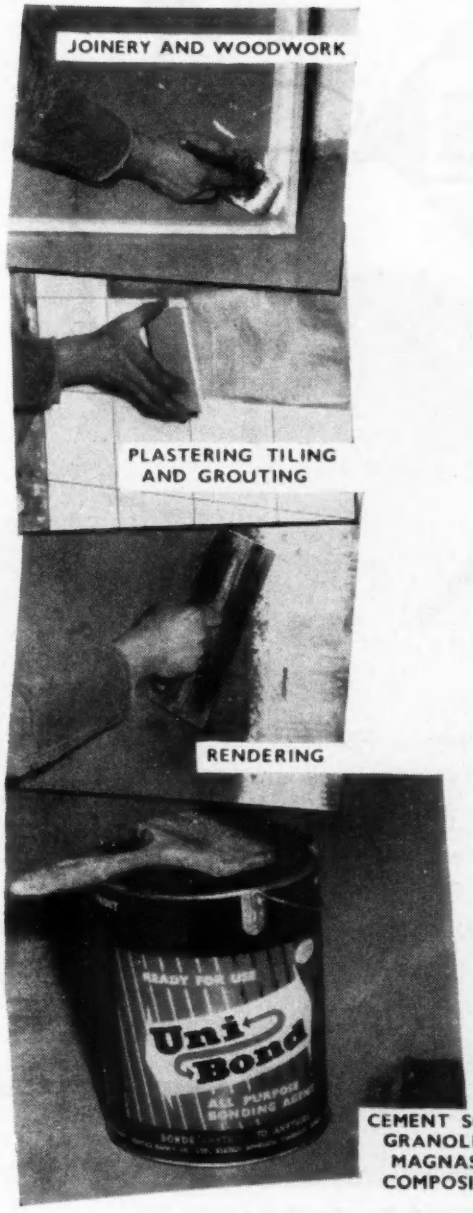

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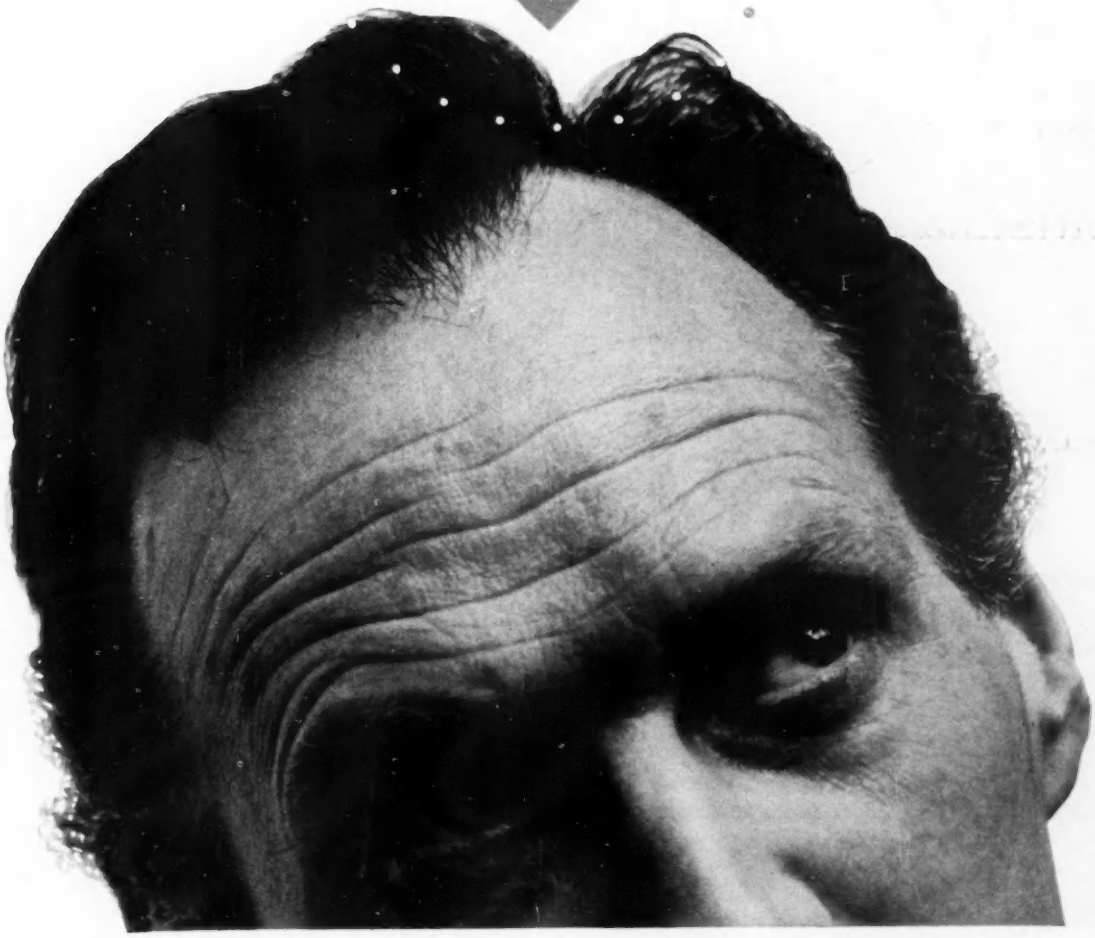

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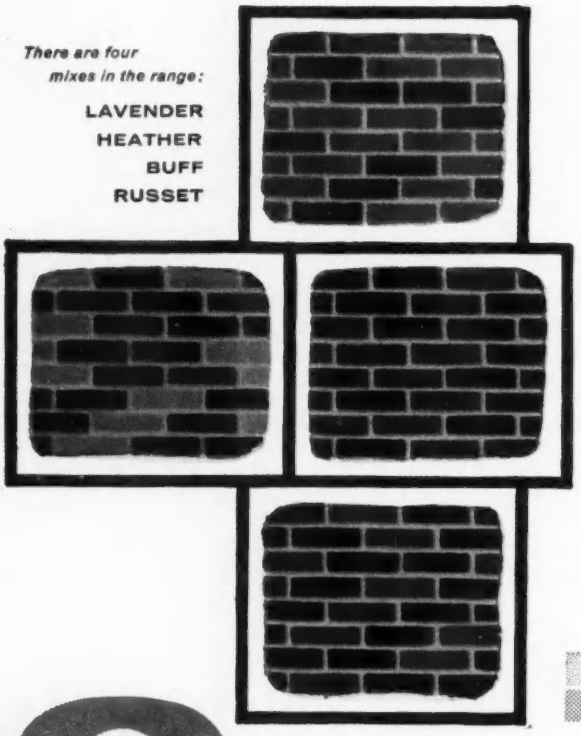

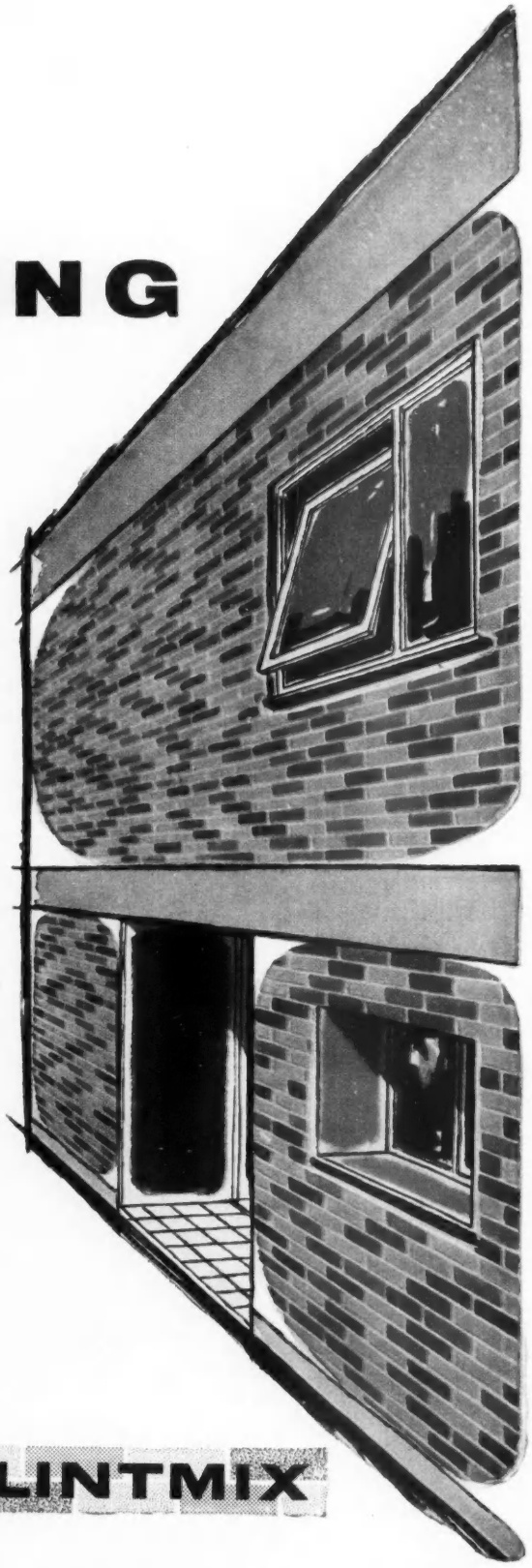

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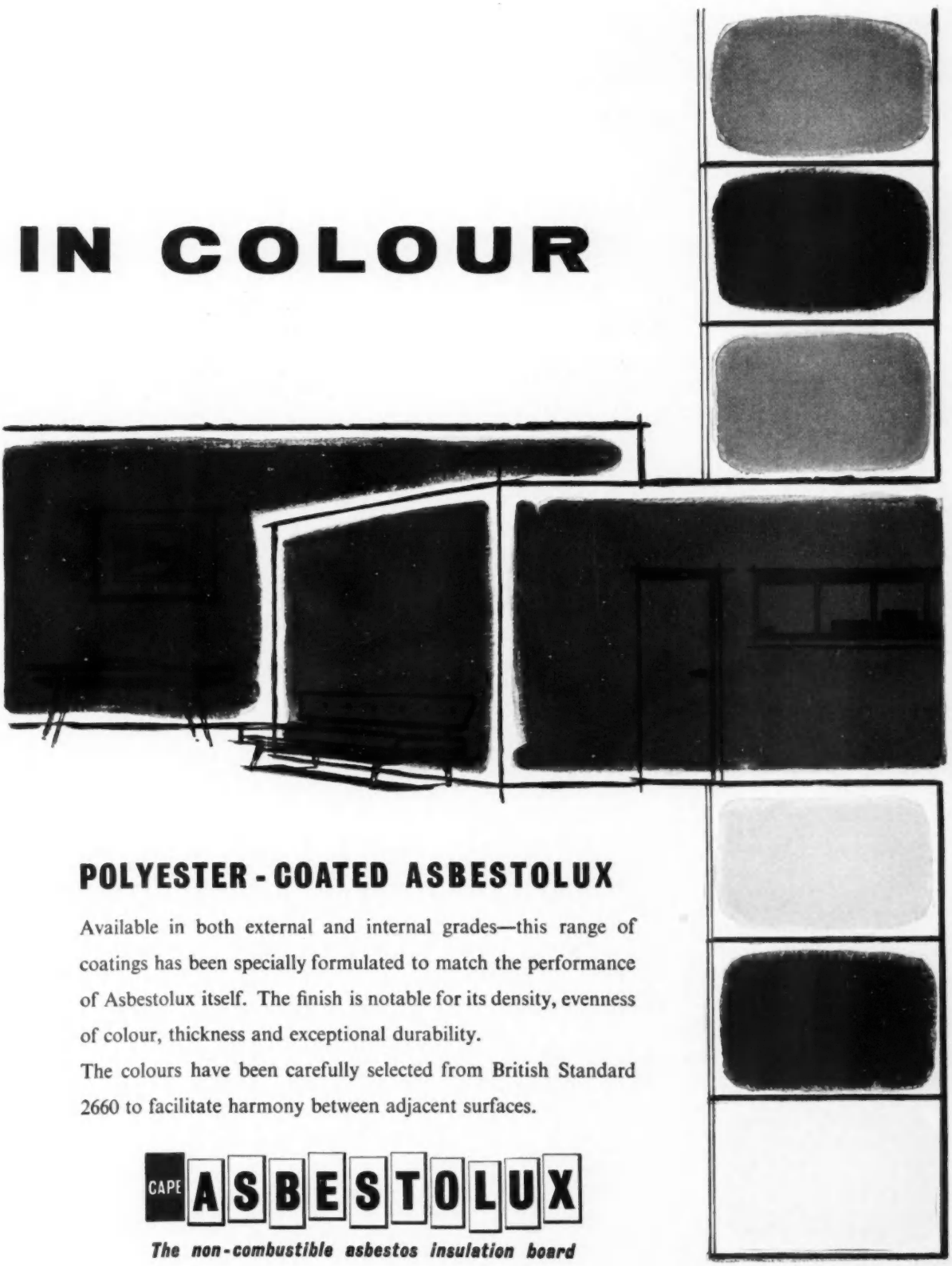

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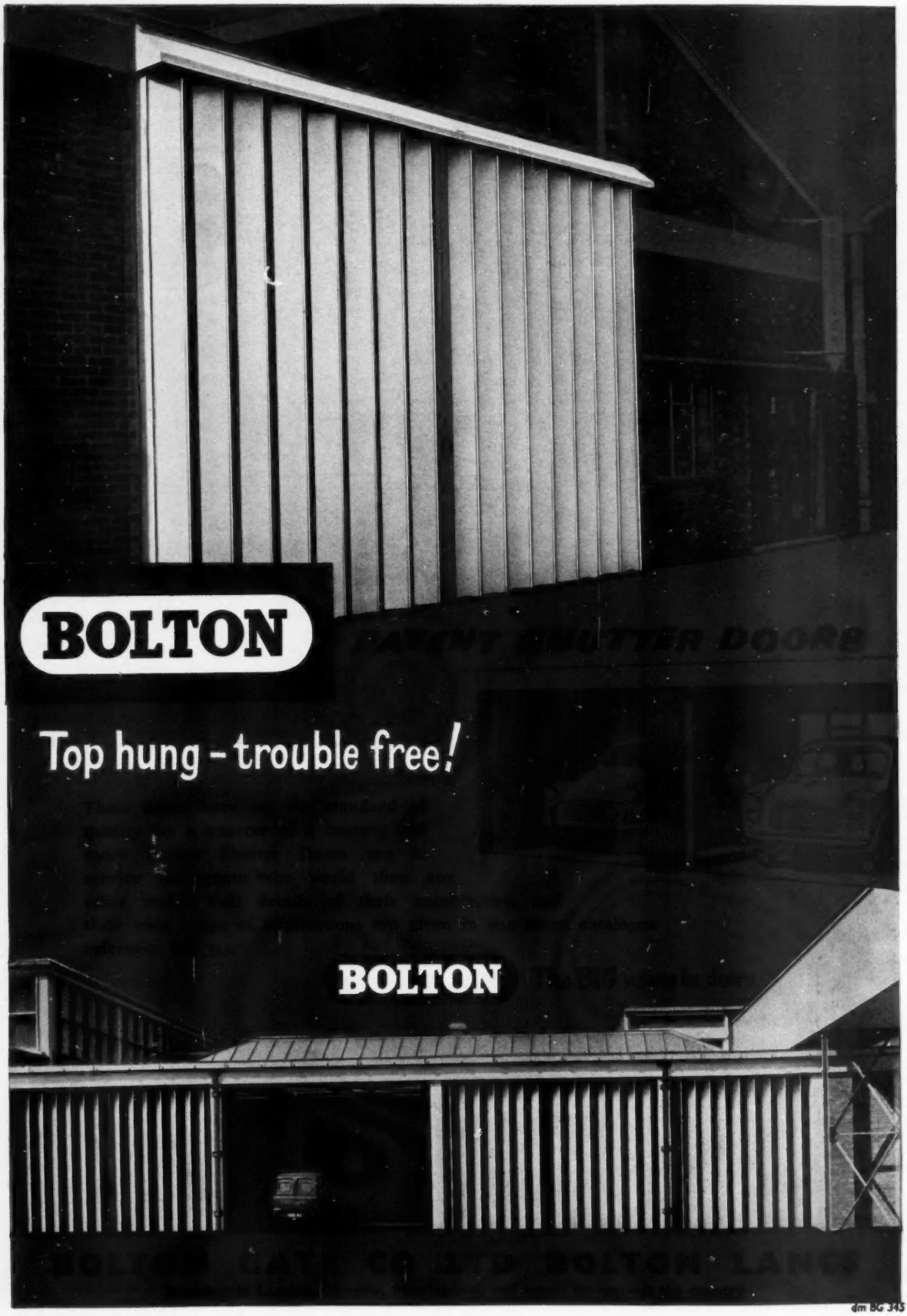

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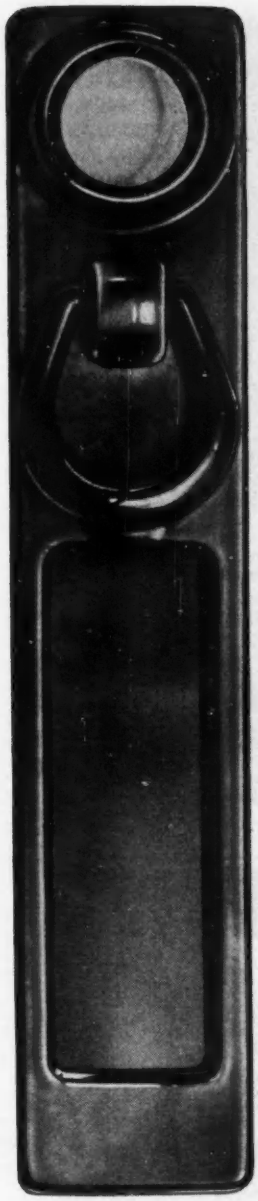

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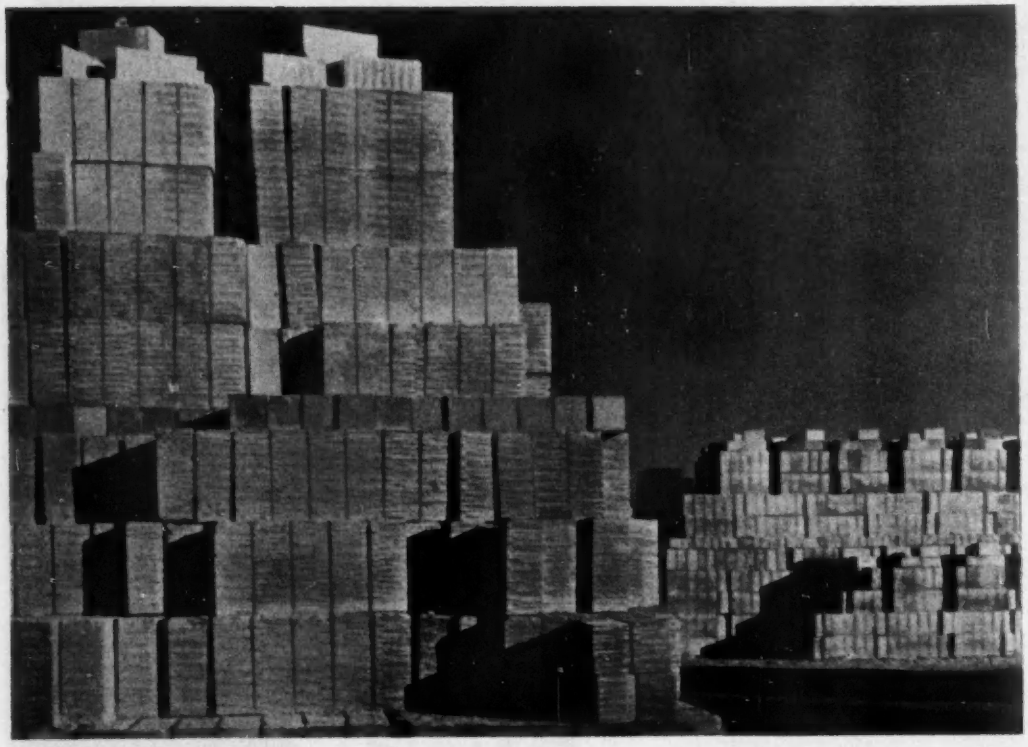

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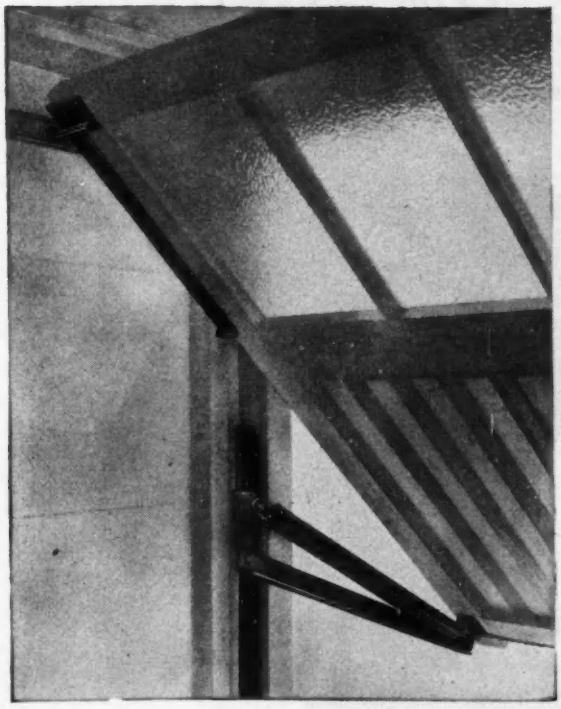

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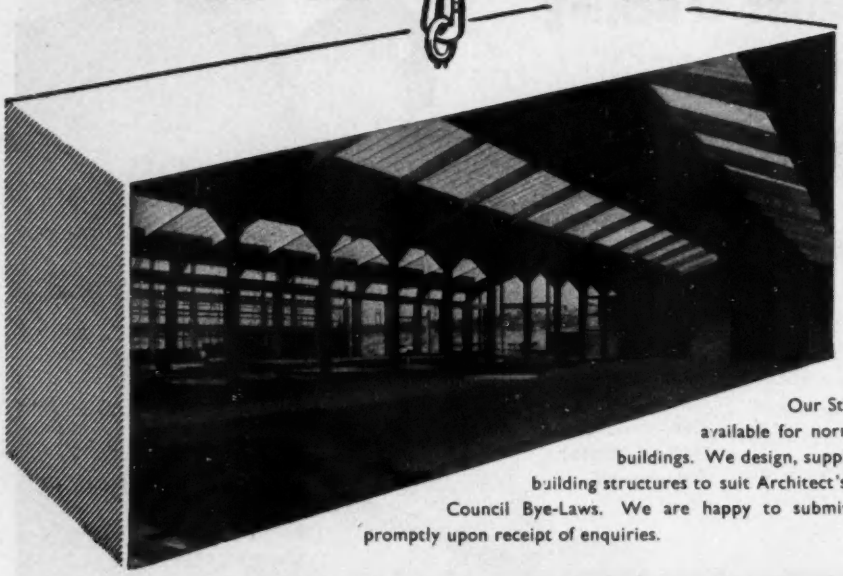

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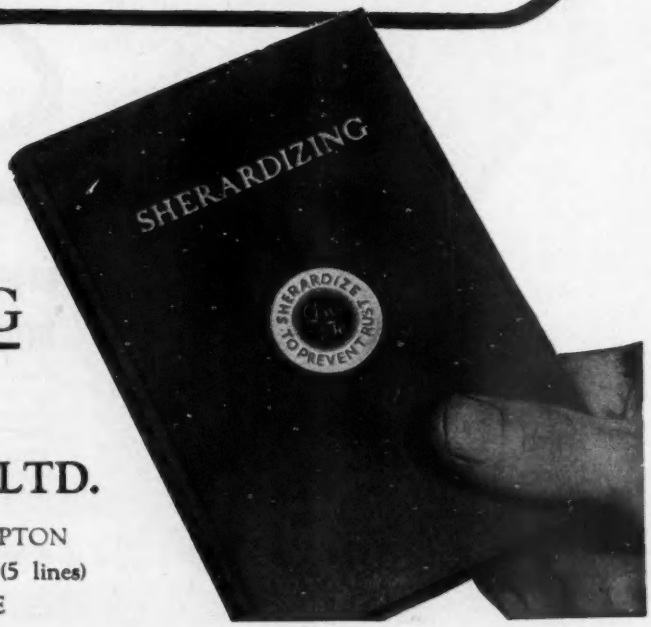

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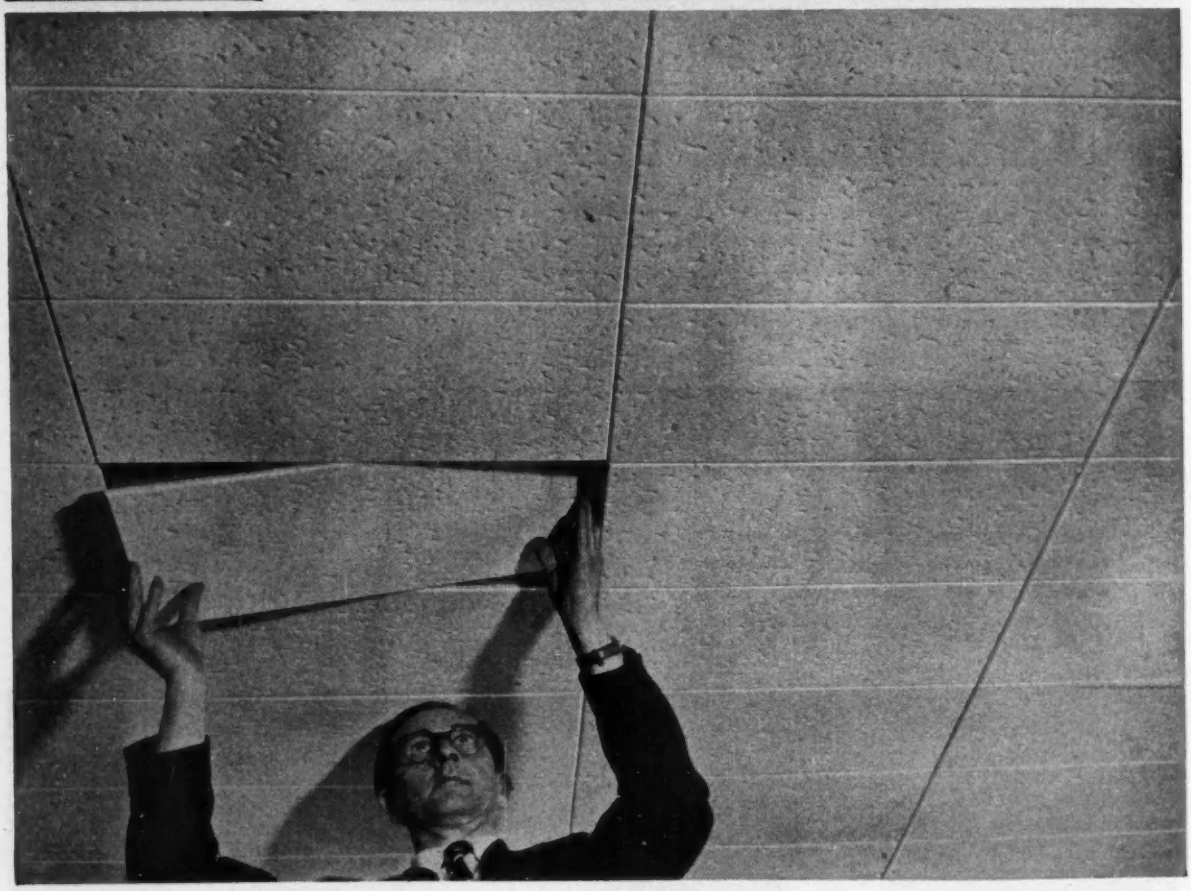

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100,204, 100,205, 100,206 – coo,
what a lot of windows –
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The final neighbourhood unit Gossops Green—where wide use has been made of Williams & Williams projected windows — is the 9th and last of the neighbourhood units. It is nearly finished and is already partly occupied.

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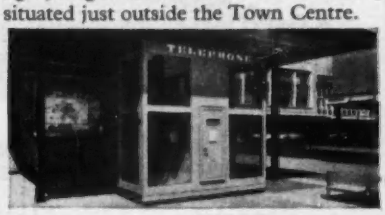
The birth of the Z range The 2′ module standard window was developed for the architects of the new towns. These Williams & Williams Z range windows at Northgate went up in 1950 — they were among the first in the country.

Tailor made standards Crawley New Town also saw the development of the now established 'CO' standard window — specially made to an intermediate height of 3′ 6″. These particular ones

at Southgate were specially made by Williams & Williams for Crawley Development Corporation.

Standard factories too To bring in the small manufacturer — and so balance the economy of the area — small factories like this one were built to a standard design. Here Williams & Williams purpose made steel windows and Aluminex Patent Glazing have been used for the sidewalls and Williams & Williams roof lights supply daylight overhead.

Curtain Walling on the Post Office Williams & Williams curtain walling with yellow in-fill panels give a light, bright look to the new Post Office, situated just outside the Town Centre.



The Williams & Williams phone boxes. The famous phone boxes in the Town Centre were specially made by Williams & Williams to the design agreed between the architects and the G.P.O.

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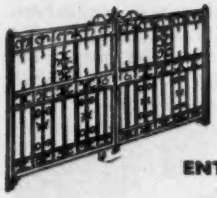

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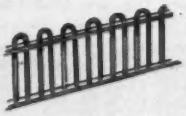

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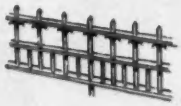

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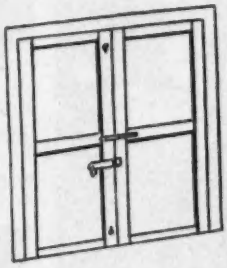

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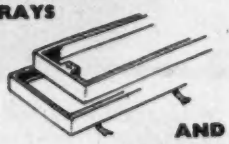

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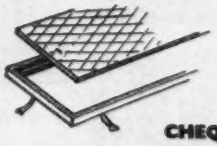

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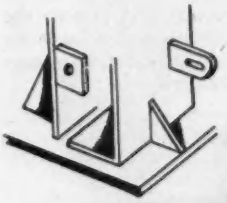

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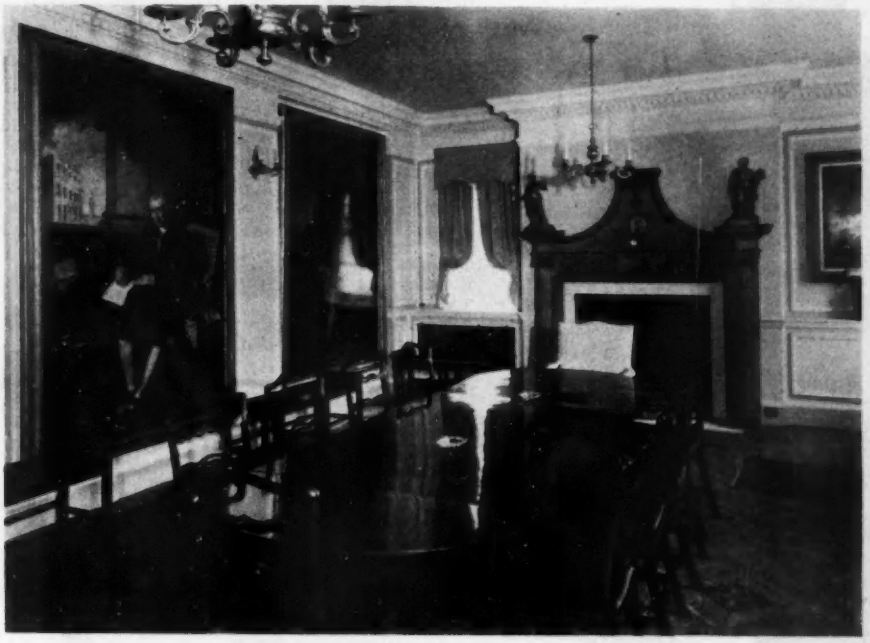

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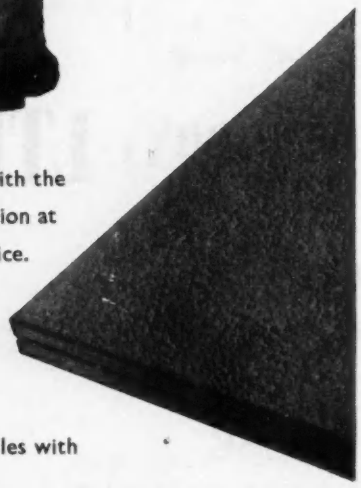

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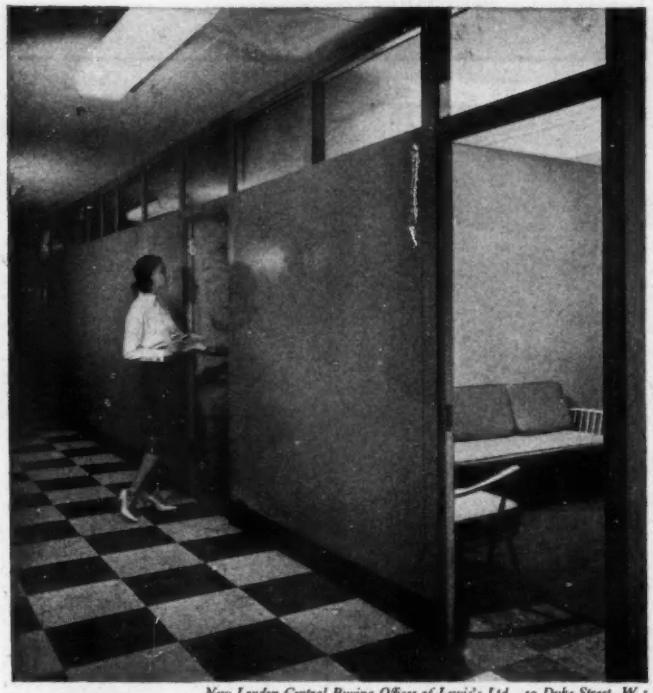

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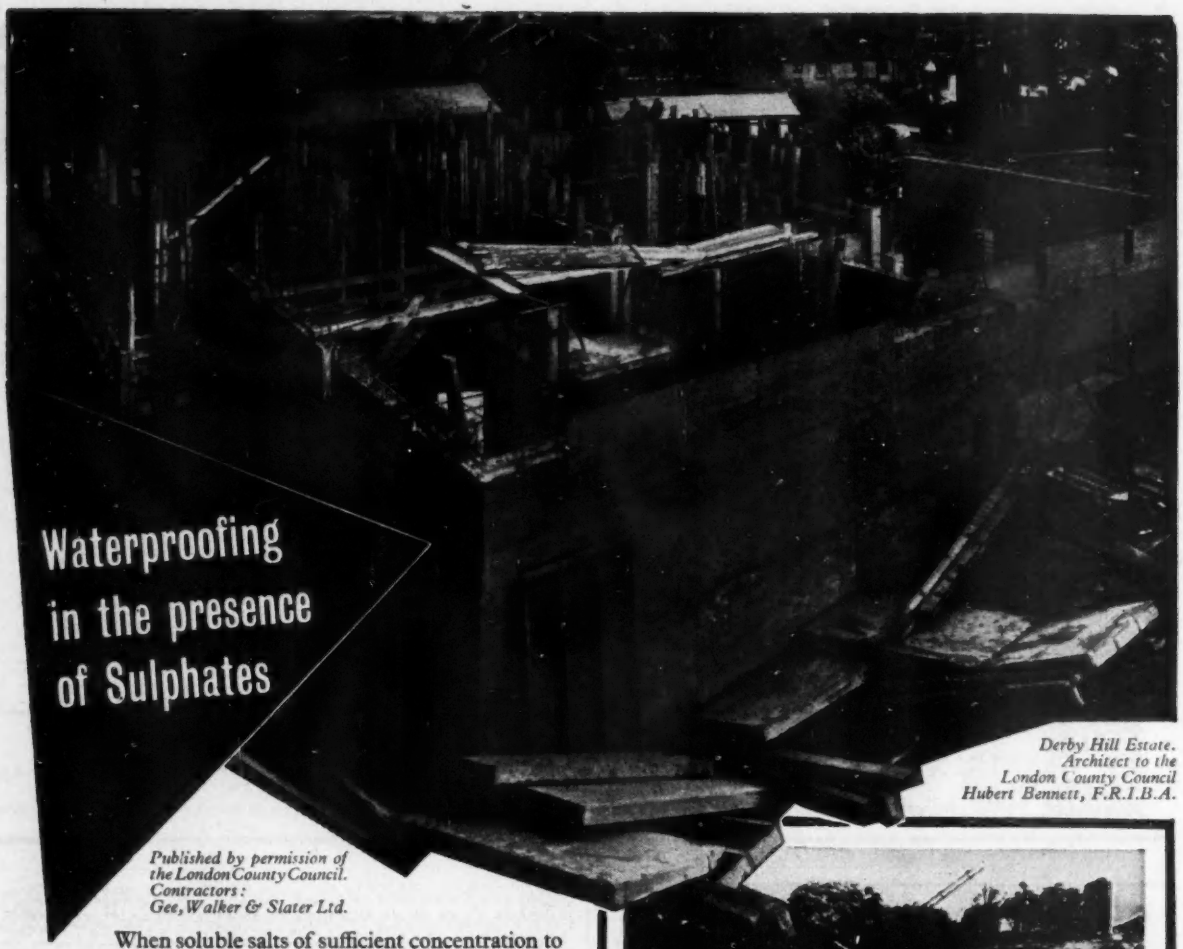

Waterproofing in the presence of Sulphates

Derby Hill Estate. Architect to the London County Council Hubert Bennett, F.R.I.B.A.

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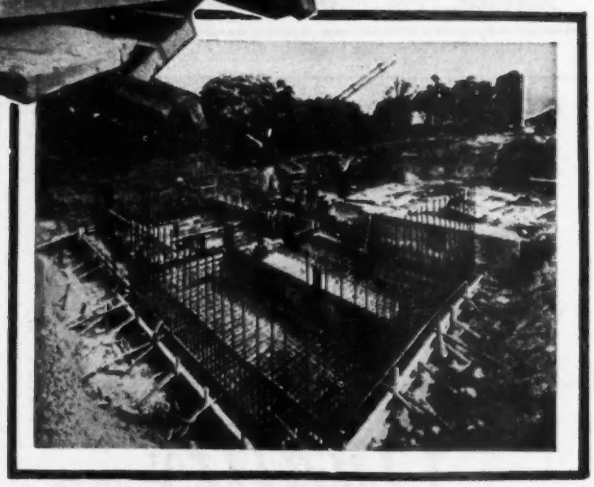

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MORTAR PLASTICISER,
FROST PROTECTOR/ RAPID HARDENER
CEMENT HARDENER/ DUST PROOFER
"FEUSOL" FIRE CEMENT

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H.P. 6309

News Summary

186 *Writing on 'Architectural Research: The Need for a Statement on Policy,' Prof. Gordon Brown says that there is 'little hope of architectural departments being granted the necessary minimum of the available facilities and funds required to establish continuous research work at the university level, until the RIBA is ready and willing to give maximum support.'*

197 *The RIBA urges the appointment of a Minister to take over the planning functions of the Minister of Housing and Local Government, the distribution of industry, and the integration of traffic planning with town and country planning on a national and regional basis.*

198 *Scathing criticisms of the current trend in school design were made in Parliament.*

200 *The Road Research Laboratory has issued a guide to engineers on the making up of private streets at a reasonable cost to frontagers.*

203 *The noticeable increase over recent months in shoddy building was condemned by Mr. Woodbine Parish, National president, when he addressed the Northern Counties Federation of Building Trades Employers.*

204 *The Minister of Health has agreed in principle that the new University Hospital of Wales may be built under one contract instead of in stages, as was first envisaged.*

204 *All building firms of suitable standing are to be told how they may get on to the Ministry of Works' Approved List from which firms are selected for invitation to tender.*

209 *The LCC is to continue to make 100 per cent loans for house purchase, and is to increase the maximum advances for improvements and alterations from 90 to 100 per cent.*

'Late News' will be found overleaf, and 'News of the Week' on page 195

Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCIX July 29th 1960 No. 6115

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Rebuilding City Centres

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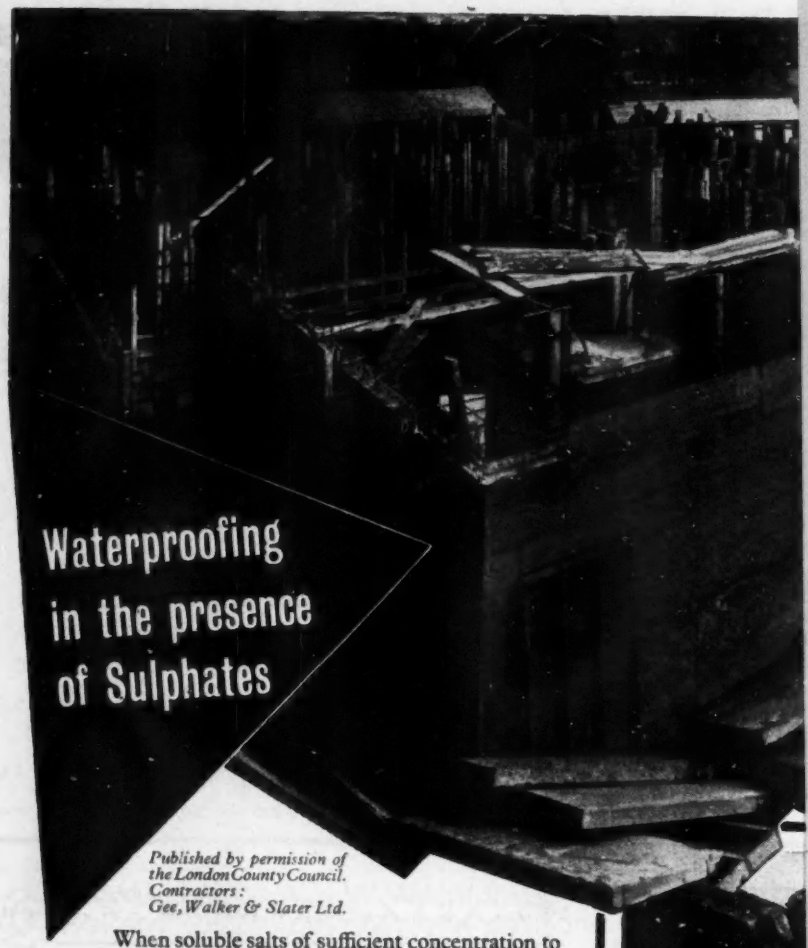
The second principle around which it was possible to feel an atmosphere of whole-hearted support was that the job cannot be properly done unless there is to be in some way or other a unification of the ownerships. Clearly there was every scope for differences of view as to the best method for creating and utilising such a unification; it might only need to be temporary in order to get the rebuilding organised, or it might be of longer duration. The unification of ownerships might be through public acquisition by local authorities or by special public



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Late News

National Theatre Proposal

MR. HEATHCOAT AMORY, Chancellor of the Exchequer, said in the House of Commons on Tuesday that he had exchanged views with the Arts Council on the proposal to build a national theatre but he was not yet in a position to make a statement. MR. GEORGE JEGER commented that the LCC had held on to a suitable site on the South Bank for the theatre but they would not hold on to it for ever. MR. AMORY replied that there were a great many competing projects for the resources available and this was not an easy decision to reach.

New County Architect, Somerset

MR. B. C. ADAMS, ARIBA, deputy county architect, Hertfordshire, has been appointed county architect, Somerset, to succeed Mr. R. O. Harris, FRIBA, who retires at the end of this month.

The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

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Rebuilding City Centres

PUBLIC INTEREST in the problems which afflict rebuilding of our city centres has now been steadily growing for some years. It has been a healthy change of focus, accompanying the wider view which recent years have been able to take. For a long time after the war attention had to be given principally to housing, then to schools and later to industry. At last better times and rising values have brought us to the city centres themselves, and the inquiry over Piccadilly showed up problems by which the subject is surrounded.

In that inquiry a notable part was played by the Civic Trust, a comparatively new and wholly unclassifiable organisation, headed by a Cabinet Minister, supported both by the professions and by industry, which has come into being to make all these problems its own. It was hardly surprising that the Civic Trust should follow up its efforts and the lessons it had learnt at Piccadilly by calling the conference which we reported in our last issue. The occasion gives us opportunity now to reflect and consider what lessons the conference itself may have taught, for it gave the subject a very thorough airing. All points of view were heard, and the morning's speakers whose addresses followed the stirring opening by MR. DUNCAN SANDYS, and the encouraging invitation of MR. HENRY BROOKE to find fresh ideas, provoked a long afternoon's discussion in which at least two important principles seemed to gain unanimous consent. The first of these was that the rebuilding of a city centre needs to be tackled by some means which is genuinely comprehensive. The implication here was that while the expression 'comprehensive development' had been bandied about a good deal, sometimes ineffectively, the comprehensiveness had got to be made real. No essential element—neither building demands nor traffic demands, neither vehicle nor pedestrian, neither public nor private initiative, neither art nor profit—should be left out of account. The good master plan should consider them all and show every interest or party to the rebuilding where it stood and what part it should play. Considering the diversity of interests which were represented at the conference, and represented well, this was a significant item upon which to feel that a consensus of opinion had been formed.

The second principle around which it was possible to feel an atmosphere of whole-hearted support was that the job cannot be properly done unless there is to be in some way or other a unification of the ownerships. Clearly there was every scope for differences of view as to the best method for creating and utilising such a unification; it might only need to be temporary in order to get the rebuilding organised, or it might be of longer duration. The unification of ownerships might be through public acquisition by local authorities or by special public

agencies, or even through schemes of pooling or re-parcelling among private owners. But some scheme or other for unification, to get the unity of planning started, seemed to delegates to be essential. This is a matter which, as SIR WILLIAM HOLFORD said in his summing up, undoubtedly must engage conscientious further study.

If any other lesson were to be learned from the conference it would be as to how very valuable discussion can become when well prepared and well led in a representative and knowledgeable gathering.

Landmark in Building Education

WHAT ITS PRESIDENT, MR. GEOFFREY SWAYNE, properly described as 'a historic day in the life of the Institute of Builders' was marked on July 20 when the Institute published (from 48 Bedford-square, WC1, price 2s. 6d.) its 'Regulations and Syllabuses for the Professional Membership Examinations.' This well presented and printed booklet offers what the industry has long needed —a clearly recognisable ladder of ascent by which educationally suitable candidates for management posts in the industry may qualify themselves for the job; it is especially apt that it should be the President, building on foundations laid by his two predecessors, MR. F. LESLIE WALLIS and MR. HARRY ODDIE, who has guided through council a document whose contents have been devised by a committee of experts of which he himself has been chairman.

The main intention is that from 1962, when the last of the students working for the Licentiate Diploma examination has sat, this examination will be discontinued and

The bronze figures of St. Michael and the Devil, by the late Sir Jacob Epstein, which hang on the south-west wall of the Cathedral Church of St. Michael and All Angels, Coventry. Sir Basil Spence, RA, architect (see Note)

Notes of

RIBA Call for Planning Minister; Coventry Resurgent; MoW Con-

THE CALL FOR THE APPOINTMENT of a Minister of Planning, contained in a memorandum sent by the RIBA to the Government, is an indication of the Institute's quickened interest in town planning, the need for which was emphasised in members' speeches at the last annual meeting. The memorandum (printed in full on p. 197) suggests that the new post should co-ordinate the planning functions of the MoHLG and those of the Board of Trade which is responsible for the distribution of industry. It also calls for the appointment of a committee to study the future use of land, with a research and experimental unit providing information on town and city reconstruction.

* * *

THESE IDEAS ARE ADMIRABLE, and we only question whether the best means of implementing them is by way of a new Ministry. One of the difficulties that has stood in the way of effective planning control has been duality of responsibility and to take away from the Ministry of Housing and Local Government, which deals with local authority affairs, the theoretic control of planning while leaving with it day-to-day administrative questions of land use would inevitably produce, we think, a chaotic situation. The solution may well lie in appointing an extra Parliamentary Secretary to the Ministry of Housing and Local Government responsible to the Minister and the House of Commons for the functions set out in the RIBA's timely memorandum. Perhaps this may be discussed at the meeting which the Institute's representatives are to have with Mr. Brooke.

Coventry Resurgent

THE CITY OF COVENTRY had in common with the City of London post-1666 the opportunity to rebuild on lines by which

entry to the Institute's ranks will be only by the new non-corporate membership grades of Student and Probationer, entrants for which will go forward by means of two examinations (the final being in two parts) to Associateship. For the time being there will be the two methods of entry operating simultaneously, but there will be no confusion in the minds of technical schools or candidates, though the load laid on the Institute itself will be heavy. Procedure is made very clear in the booklet which is supplemented by specimen examination papers, notes for the guidance of lecturers and lists of suggested reading. The path to management in building is now clearly flagged.

The Institute is, of course, well aware that its job does not end with publication of these regulations and syllabuses; both will need to be kept under constant review particularly the syllabuses, for (as MR. D. A. G. REID made clear at the meeting) the problem of examinations which are based partly on a discipline in which the humanities largely enter, and partly on practical work, is not capable of a 'once and for ever' solution. The Institute is clear about this, and there can be little fear that its education committee (reinforced as it is by experienced educationists such as Mr. Reid) will fail to take note of future trends.

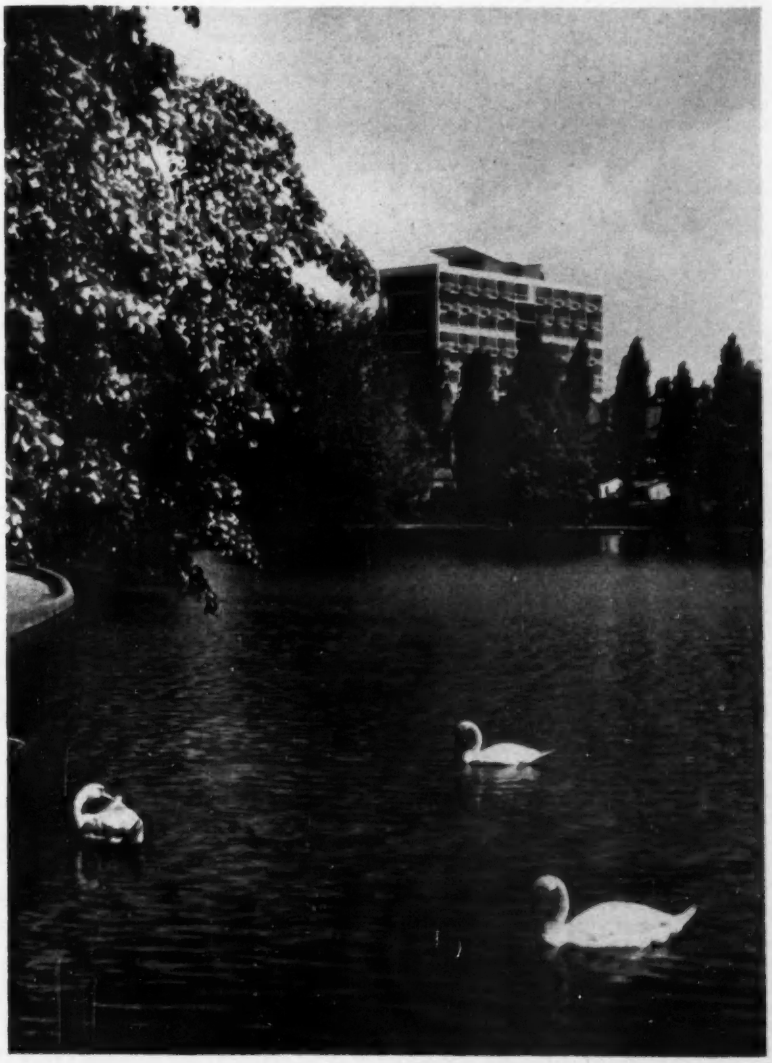
One point remains. From being the most backward in codifying its training and examination structure, the Institute of Builders now is the most forward. Those who believe that the training of architects, quantity surveyors and building management students in parallel and within the same college can lead to enormous benefits, would wish to be assured that the educational bodies responsible for architectural and quantity surveying education are deliberating how, in revisions now under consideration, the educational content as well as the mechanics of their own system of entry to the professions shall make this joint training feasible. MR. PETER TRENCH recently expressed an opinion that there is a present lack of liaison between the Boards of Architectural and Building Education. If he is right, the industry at large will welcome some positive and early indication that the two Boards are working together to study joint implications.

the Week

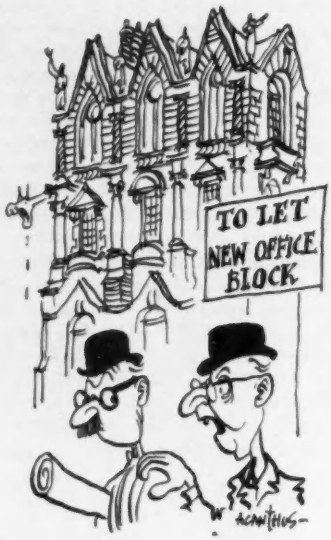
tractors' List; Architecture at the Polytechnic; 'Made in the Country'

both traffic and architecture should be improved. It is a matter of history that London's city fathers, in spite of Wren's pleadings, failed to grasp their chance: it is a matter of fact that Coventry has taken its opportunity with both hands and is in process of producing a new city that is architecturally exciting and convenient and pleasant for both pedestrian and motorist.

Seeing the city after an interval of two years underlines the point. The city centre, with Broadgate as a focal point, has a cohesion that is wholly admirable and earlier impressions of a certain dullness arising from uniformity of architectural style are proved to be unfounded by reason of new additions, of which the Belgrade theatre and the offices to house the city's architectural department are outstanding in character. The next British Architects' (or will it be the RIBA?) Conference in 1962 will not go short of interest. For architectural quality extends to the housing estates. Of individual blocks none is more striking than Phoenix House, a ten-storey building opened at the end of May and as notable for its standard of finish as for its gay appearance. Construction is in 'no-fines' concrete with infill panels of lightweight construction in vitreous enamel. Each of the 56 flats has underfloor heating, fluorescent lighting and spin driers. Sliding windows help the elevational treatment and make cleaning a simple matter ('provided your arms are long enough,' as a petite but otherwise delighted tenant told your correspondent). 24 of the flats are 2-bedroom maisonettes, the bedrooms being under the living spaces which have balcony-access. Designed by the City Architect and Planning Officer, Arthur Ling, and built by Wimpey & Co., this block is one of a number to be built in the outworn



Phoenix House, flats for Coventry City Council. Designed in the department of the City Architect, Mr. Arthur G. Ling, FRIBA, and built by George Wimpey & Co. Ltd. (see Note)



'Personally I like it—it's what Holford will think that worries me!'

areas of the city. It is an efficient and attractive prototype.

* * *

IN THE COMPANY of Mr. G. Lloyd, chief regional architect to the builders, there was good opportunity to see out-town estates where the same quality of architectural thought is apparent. Of especial interest is the Willenhall estate where one of the first full-scale Radburn-plan housing schemes has attracted, and rightly so, much attention. This plan, which essentially consists of keeping service roads to the rear of the terraced blocks whose front-doors are approached by footpaths from the main access roads and whose principal rooms overlook green quadrangles, requires a level site which is not always available. Most interesting planning results, the two-storied terraces being punctuated by four-storied angle blocks of maisonettes. This is a scheme that should be seen by every housing authority. Judicious use of secondary colours for the doors marries in well to the textured surface of the no-fines construction. The only matter of criticism is whether the service roads, short as they are, are not wasteful of land and material; 14 ft. 6 in. seems unduly wide.

* * *

OVER LUNCH, Mr. Lloyd proved himself a most interesting companion. As the regional architect to a company which is doing a large amount of local-authority work in the Midlands he holds unorthodox views on package deals. In every case, he says, he would prefer to carry out buildings in conjunction with an architect though, like many firms, he advocates the use of a negotiated contract to enable the builder's particular schemes and systems to be made full use of. An example of how this can work is seen in the churches for the Coventry new estates, designed by Sir Basil Spence (illustrated as a project in 'The Builder' of December 16, 1955 and two of them on completion in the issue of August 9, 1957). These churches, built in no-fines concrete which has been left unrendered internally and colourwashed, are amazingly successful and, one gathers, are liked by the congregation. The open-framed campaniles, which are free-standing, have something of the air of a spare part, but this is a minor criticism. By using the same plan, though with variations at east and west ends, the churches have been built for about £16,000 each, including parish room.

* * *

BEFORE LEAVING COVENTRY, there was opportunity to visit the new Cathedral which is now fast taking shape. The main walls are virtually completed and the roof is on. It is now possible to see that this is going to be a great building and should fulfil all the hopes of those who have supported the scheme from its competition days. A new interest is given by the late Jacob Epstein's sculptured group of St. Michael and the Devil which hangs on the external wall at the liturgical south-west corner. It is magnificent in conception and should go down as one of his greatest works. By 1962 the cathedral should be completed; it should be a magnet to draw many hundreds to the architects' conference.

MoW Contractors' List

AT FIRST GLANCE, the Ministry of Works' intentions to revise its procedure for listing possible contractors for its constructional work to ensure that every building and civil engineering contractor in the country has a fair chance of being considered may seem only like going through the motions of democracy. At present there are something like 5,000 general contractors on the list tendering for Ministry contracts which, at the beginning of this year, totalled something under 1,500. In September next, about 96,000 contractors and builders will receive invitations to apply for admission to the Ministry list and, if accepted, will be eligible for invitation to tender for a volume of work which certainly will be no greater.

What, then, is the value of this step (detailed on page 204) with which the Parliamentary Secretary to the Ministry, Mr. Harmar Nicholls, has been closely associated? We feel that it rests entirely on the fact that it gives a much needed lead to other building Ministries to revise their lists and to bring in new blood. Better still, that instead of wasteful duplication of work, all building Ministries should draw upon the to-be-revised MoW list. If this suggestion be taken up, the Ministry of Works' proposal will more than justify itself.

Architecture at the Regent-st. Poly

SOME OUTSTANDING and imaginative work both in architectural design and in town planning can be seen in the exhibition of students' work which is on view until July 29 at the school in Little Titchfield-street, W1. The exhibition is arranged to show the work of a typical student year by year, the full-time day study shown separately from the part-time evening work.

Many of the schemes on view are based on actual development and housing schemes, and one is based on the published conditions in a current architectural competition. The standard of work at the Polytechnic School of Architecture is undoubtedly maintained at a high level and prospective students who propose enrolling for next session's first-year course would be advised to visit this exhibition to see the kind of work that will be expected of them.

The annual diploma and prize-giving ceremony was held on July 15 when Sir Hugh Casson, RDI, MA, FRIBA, after addressing the students on their current work and reminding them of their future responsibilities in a world where architecture and planning are becoming increasingly important, made the presentations.

'Made in the Country'

UNDER this title the Rural Industries Bureau has mounted an interesting exhibition at the Ceylon Tea Centre, Lower Regent-street, writes Basil Marriott. The organisers are among the few guardians of national and traditional standards in the crafts and arts—in that order, for the accent is upon craftsmanship, and here and there design standards might perhaps cause raised eyebrows at that other Centre in the Haymarket: there is, for instance, some positively overwrought iron in the stockbroker's-Spanish style, olé and alas! But the saddlery (Leather Section) could not be improved by design advice from that or any other source. Though no hippophile, I have seldom coveted anything more than a doeskin-covered Dressage-saddle in the window, for sheer sculptural form and finish: but then we proverbially dress our horses more elegantly than their riders.

Again in the functional tradition, a red strawberry-barrel in the Garden Section is typical of what has already unconsciously hit high fashion, and will no doubt appear in some odd contexts (less manure!) while the Engineering Section's even odder bedfellows are evidence of the RIB's wide scope. Other sections are Pottery, Basketry, Sport, Textiles (Welsh flannels particularly tactile), Wood, Furniture, and showcased miscellania from pipes to an X-ray Diffraction camera—such are the goings-on in rustic surroundings! I hope this may appear in time for others to catch a breath of rural air over the Tea Bar—last day is today (Friday, July 29).

Poet's Corner

In his address to the recent British Architects' Conference at Manchester, Mr. Arthur Ling said it was disquieting to find that there are 35 important county boroughs with a total population of over 3½m. still without a chief architect in charge of an independent department.

What hope for townships that neglect
To have their own Chief Architect?
They're bound to get, as all observe,
The architecture they deserve.
Come councils all, and do your duty,
For the sake of England, home and beauty!
Leadership alone can brave
The doldrums of a permanent waive.

ANON.

Flats in Redcliff, Bristol

ALBERT H. CLARKE, FRIBA, AMTPI, city architect

T. S. SINGER, ARIBA, AMTPI, deputy city architect

Waring House (block A) from south

WARING HOUSE is part of the largest block of dwellings in Bristol and has been erected near Bedminster Bridge on the main approach to the city from the south-west. The site adjoins the general hospital and is bounded by Guinea-street, Commercial-road and Redcliff-hill. Where Commercial-road and Redcliff-hill intersect, a new traffic roundabout will be formed, Redcliff-hill widened to form a dual highway and a new bridge built alongside the existing one. The layout of the precinct as a whole has been carefully planned with planted open spaces between the blocks of dwellings, and Waring House in particular has been sited to open out the prospect of the Church of St. Mary Redcliff.

A total of 176 dwellings are provided in the three wings of Waring House (block A) comprising 97 three-bedroom maisonettes, 52 two-bedroom maisonettes and 27 bedsitting-room flats. 11 shops, 41 garages, two laundries, five lifts, tenants' stores and a heating chamber are also incorporated. The wings vary in height from 8-storey to 11-storey and 13-storey.

Construction is of reinforced concrete with columns and beams supporting prefabricated, prestressed planks and hollow tile floors, cavity party walls between dwellings, and external panel walls. Below ground the columns rest upon reinforced concrete ground beams.

The projecting balconies on the Commercial-road frontage were precast off the site, lifted into position and fixed to the concrete floors and walls. Over the access roadway from Commercial-road a concrete barrel vault is high enough to permit the entrance of fire appliances and other large vehicles.

Externally, construction is expressed in the design with the concrete frame exposed, panel construction between the columns using metal frames, timber, glass and thermal insulating blocks. Relief and interest has been given to the exterior design by the use of brick and stonework, flower boxes, terrazzo facing to columns at the Commercial-road entrance, arches at roof and ground level, and recessed as well as projecting balconies. Approach is made to the dwellings by access balconies from the lifts situated in staircase towers. Two laundries are situated adjoining the two main circulation areas. The two- and three-bedroom maisonettes have a living room and kitchen on the lower floor and bedrooms on the floor above so that living inside one of these dwellings is much like living in a normal house. Two types of bedsitting-room flats are provided, some for two persons and the others for single people.

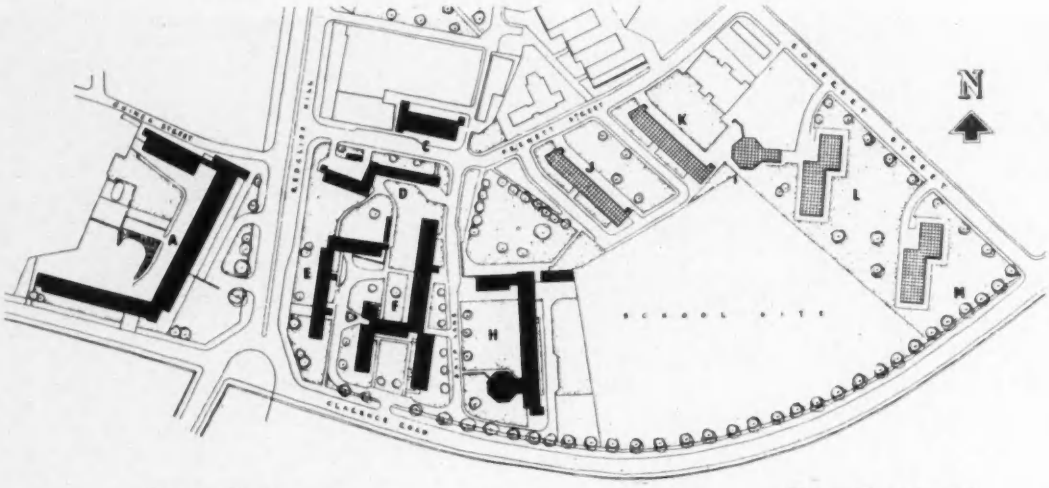
In all the dwellings, tenants have a choice of electricity or gas for domestic appliances, and telephone, television and radio services are available. Central heating by radiators is provided and the system automatically adjusts the amount of heat needed according to the prevailing weather conditions and to maintain conditions of comfort.

The heat is obtained from boilers in Canynge House, built some time ago on the other side of Redcliff-hill, with heating mains in a duct under the roadway to a calorifier chamber in the north-east corner of the site.

The reduction of sound transmission through the floors is achieved by floating the non-structural part of the floor on an insulating quilt. Special construction allows windows to be reversed completely and cleaned from inside.

L. W. FRANCIS, ARIBA, principal housing architect

JOHN LAING & SON LTD., general contractors

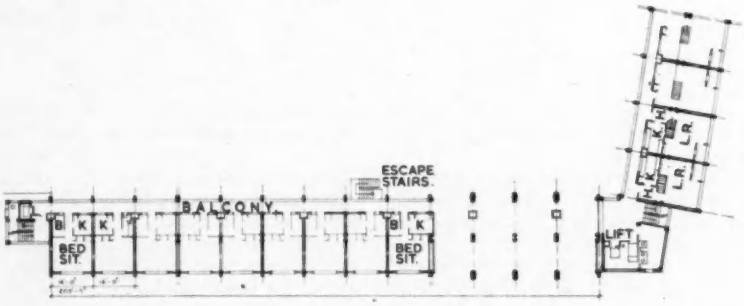


PRESENT DEVELOPMENT

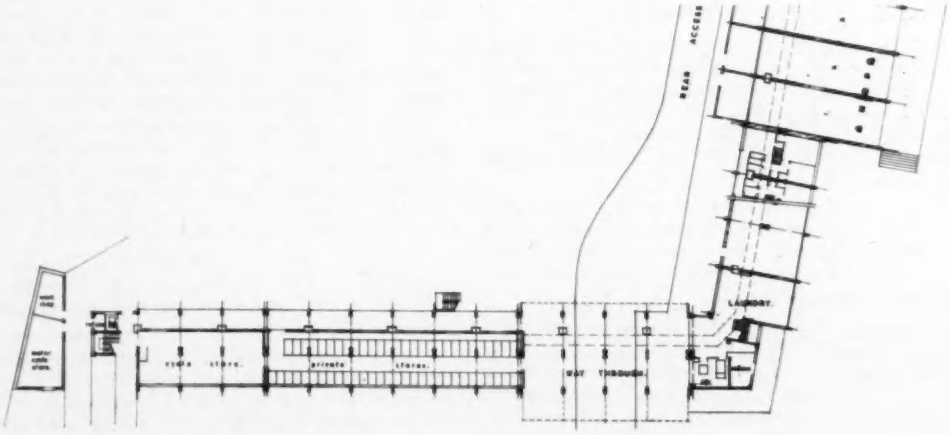
Block	Storeys	B.S.R.	1-bed	2-bed	3-bed	4-bed	Shops	Total	Remarks
A	11—13	—	—	—	79	—	11		
	8	5	—	—	18	—	—	176	Completed
	11	22	—	52	—	—	—		
C	4	6	—	6	—	—	7	12	Completed
D	5	8	—	12	1	8	—	29	Completed
E	6	—	11	18	8	—	—	37	Completed
F	5	18	1	44	1	1	—	65	Completed
H	6—12	20	—	73	5	2	—	100	Under construction
		79	12	205	112	11	18	419	

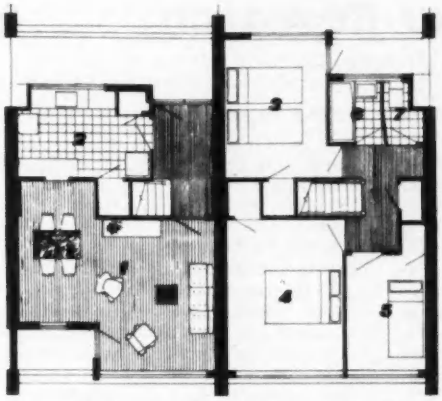
FUTURE DEVELOPMENT

Block	Storeys	B.S.R.	1-bed	2-bed	Total
J	10	9	9	36	54
K	10	9	9	36	54
L	12	—	60	48	108
M	12	—	60	48	108
		18	138	168	324

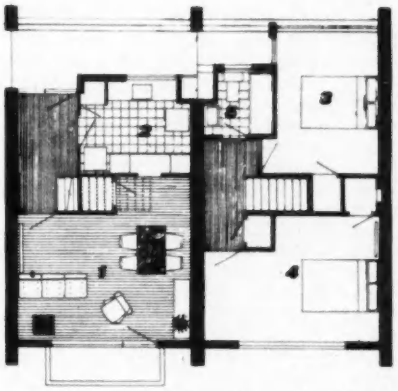


SOUTH WING BLOCK A GROUND & FIRST FLOORS SCALE: 1 in. = 64 ft.

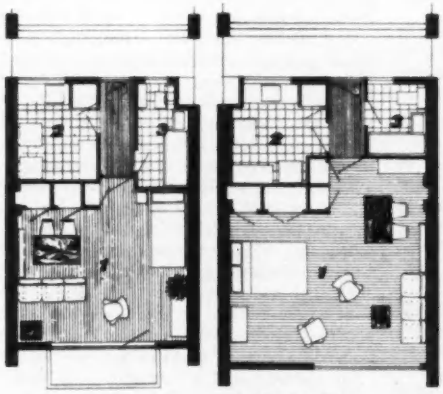




3-Bedroom Maisonette: 1. living room; 2. kitchen; 3. bedroom; 4. bedroom; 5. bedroom; 6. bathroom; 7. WC.



2-Bedroom Maisonette: 1. living room; 2. kitchen; 3. bedroom; 4. bedroom; 5. bathroom



Bedsitting-Room Flat (single person), and Bedsitting-Room Flat (two persons). 1. living room; 2. kitchen; 3. bedroom.

PLANS SCALE: 1 in. = 16 ft.

Precast concrete balconies on south elevation

Flats in Redcliff, Bristol

Refuse from all floors is disposed of by chutes to chambers at ground level, which are conveniently situated near the service road for ease of collection. A considerable fall in ground level across the site has made it possible to build some garages partly underground, and enabled the garage roofs to be used for recreational areas. Nearby there are grassed areas and swings for the children. The shops in Waring House will replace some of those demolished in the area.

Assisting the principal architect were, R. Hutchinson, ARIBA, and L. J. Johnson, ARIBA. Consulting engineers: Clarke, Nicholls & Marcell, and R. W. Gregory & Partners. Quantity surveyors: Banks Wood & Partners. Clerk of works: J. T. Blackwell.

Sub-Contractors & Suppliers:

Lifts: The Express Lift Co. Ltd.; *mechanical services:* Richard Crittall and Co. Ltd.; *electrical services:* Central Electrical (Bristol) Ltd.; *gas services:* South Western Gas Board; *stonework:* Maurice V. Sheppard Ltd.; *rediffusion:* Bristol Rediffusion Service Ltd.; *shop fronts:* Hamer & Scroggs Ltd.; *cement glaze to refuse rooms:* John Ellis & Sons Ltd.; *floor tiles:* Marley Tile Co. Ltd.; *windows:* Henry Hope & Sons Ltd.; *refuse chutes:* Broad Manufacturing Co. Ltd.; *reconstructed stone:* Bristol Stone and Concrete Co. Ltd.; *duct covers:* Broads Manufacturing Co. Ltd.; *kitchen fitments:* Jayanbee Joinery Ltd.; *cycle holders:* Le Bas Tube Co. Ltd.; *garage door gear:* P. C. Henderson Ltd.; *roof lights:* Lenscrete Ltd.; *ceramic brick screen:* Sussex & Dorking Brick Co. Ltd.; *washing machines:* Electrolux Ltd.; *hydro extractors:* T. Broadbent & Sons Ltd.; *electrical fittings:* The Britmac Electrical Co. Ltd., Holophane Ltd., Wardle Engineering Co. Ltd., Benjamin Electric Ltd.; *laundry heaters:* Dunham Heaters Ltd.; *laundry fans:* Vent-Axia Ltd.; *radiators and boilers:* Ideal Boilers & Radiators Ltd.; *automatic stokers:* Hemel Hempstead Eng. Co. Ltd.; *facing bricks:* The Cattybrook Brick Co. Ltd., The London Brick Co. Ltd.; *sanitary fittings:* Barking Brassware Co. Ltd.; *name signs:* Adams & Thompson; *ironmongery:* Metal Agencies Co. Ltd.; *refuse chamber doors:* Flexo Plywood Industries Ltd.; *garage doors:* Southern Ltd.

Architectural Research

Need for a Statement on Policy

By R. Gordon Brown, MA, FRIBA, AADip

ARCHITECTS engaged in teaching at our universities often find themselves criticised, in academic circles, for their failure to engage in research. Meanwhile professional circles show little interest in the encouragement of research by staff members of our schools and university departments of architecture. A recent issue of 'The Builder' contains a leading article which is clearly designed to provoke the academics into stating their case more clearly. It contains the following passage:

'But what do we mean by the term "research" in architecture? If it is scientific, can it be done better in a university than in the laboratories of industry or the Building Research Station? If it is sociological, is it best done within the faculty or architecture? If aesthetic—but the spirit flinches at the association of academic research with the practice of an art! If this is no more than a plea for "jobs for the dons" we doubt if it need be taken seriously. Every architect worth his salt spends his life in research, studying his client's requirements, seeking better construction and, if he has it in him, making new works of art.'

Research and Invention

In this statement the academics are not only provided with a challenge but also with the framework on which to reply to the typical questions put forward by critics who question the possibility of academic research in architecture. But before proceeding with a detailed reply, it is necessary to define what is meant by the word research. There is some confusion, it seems, between research, invention and investigation; three quite different activities.

Research is an activity undertaken to extend the field of knowledge. It may be objective or it may be motivated by a general and non-objective curiosity. Invention is the act of creating a new and useful thing or process. Investigation is a process of collecting and collating what is known. It does not involve the discovery of new knowledge or the necessity for invention.

It may be argued by someone reading these definitions that research and invention are inseparable. Professor Dennis Gabor, FRS, newly appointed Professor of Applied Electron Physics at the University of London, has kindly agreed to my quoting part of an article 'Inventing the Future,' which he wrote for 'Encounter' in May, 1960.

'Will great research laboratories, staffed by devoted research-minded workers, really pour out automatically a stream of worthwhile inventions? I am afraid this is just one of the comfortable beliefs of modern "Organisation Man." Thanks to recent researches, one can give a fairly quantitative appraisal.

'From a careful investigation into the history of 60 important modern inventions, it appears that not less than 33 are the work of individual or independent investors, 6 are borderline cases, and only 22 come from research laboratories, of which 15 are chemical inventions. It may be noted that electronic research laboratories have a very good record, because modern television is largely the work of excellent inventors employed by large firms, such as Westinghouse, RCA, EMI, and Marconi's, whereas the work of individual inventors, such as J. L. Baird and D. v. Mihalyi, came to a dead end. Also, one of the most outstanding modern inventions, the transistor, is the work of the exceptional team of the three Nobel Prize winners, Shockley, Bardeen, and Brattain, in the Bell Telephone Laboratories.

'This might look like a sufficient vindication of the modern institution of great industrial or national research laboratories, in spite of the more than 50 per cent contribution of the small minority of individual, independent inventors; but on a closer look it is only a justification of those institutions which know how to employ and to stimulate inventors.

'Research is a modern hurrah-word, which exploits the immense prestige of science. Even the institutions which deal exclusively with inventions cannot do without it; they call themselves "research foundations" in the US, and in this country we have the National Research Development Corporation—as if invention were nothing but the development of research results! There is no objection against a name, so long as we do not forget what it covers. But to suggest that television is a result of research into photo-emitters and electron optics, or that the transistor is the result of research in semi-conductors is plainly misleading.'

A Discussion

Returning to the consideration of the leading article in 'The Builder,' let us consider, singly, the questions and statements which it contained.

But what do we mean by the term 'research' in architecture?

Research has already been defined. In terms of that definition, architectural research is a process designed to extend the range of knowledge of architecture and its related fields. Architectural research may be objective or non-objective. Besides answering the question directly it seems necessary to illustrate the answer by giving examples of fields in which architectural research has taken place or could take place:

1. The attributes and uses of a material or a structural system.
2. Architectural history.
3. The relationship between colour and scale.
4. Strategies and patterns of problem-solving behaviour in processes of architectural design.
5. The design of specific building types.
6. Current practice in relation to certain limited fields.
7. Education.

If it is scientific, can it be done better in a university than in the laboratories of industry or the Building Research Station?

The answer to this question may be yes or no and is dependent on the talents and facilities available at a particular university. Clearly the universities have a part to play, individually or in collaboration with industries and the Building Research Station. Industry has offered many scholarships designed to promote such collaboration.

Pioneer Work at Liverpool

If it is sociological, is it best done within the faculty of Architecture?

The answer is again dependent on the talents and facilities available. The pioneer work done at Liverpool in relation to the education of planners and planning research is an example of valuable sociological work instigated and, to some extent, developed by a school of architecture. The same is true of Rowse's pioneer work at the AA, in the School for Planning and Development. Margaret Mead has said that architects are always needed when societies are in a state of change and, with former colonies and protectorates emerging into independent statehood all over the world, there are innumerable fields of related sociological research where the talents of the architect are urgently needed. This has been demonstrated in the work of Maxwell Fry, Jane Drew and others. There is every reason why architects in universities, at home and abroad, should be given the opportunity to play their part in this field of sociological work and in many others.

If aesthetic—but the spirit flinches at the association of academic research with the practice of an art.

Flinch it may, but it would seem that there are many possible fields of research which are related, directly or indirectly, to the practice of an art. For example:

(a) The practice of architecture in Britain 1920-60.

(b) Mechanical and mathematical systems of determining proportion.

(c) The study, in individuals, of the typical and progressive development of concepts related to the appreciation of architecture.

(d) There is a considerable field of psychological study related to the practice of the arts. The following are a few examples:

'Creative Thought in Artists.' Patrick, C.

'Invention and the Unconscious.' Montmasson, J-M.

'The Creative Process.' Ghiselin, B.

'The Anatomy of Judgment, an investigation into the processes of perception and reasoning.' Abercrombie, M. L. J.

(e) Surely any biography of an architect may be classified as 'academic research associated with the practice of an art.'

If this is no more than a plea for 'jobs for the dons' we doubt if it need be taken seriously.

If architectural 'dons' are not engaged in the job of architectural research, it is a very serious matter indeed and no plea from them should be necessary to spur the profession to action. Recent reports have shown that there are large numbers of staff members in schools of architecture who have had little or no office experience and who conduct little or no private or consultant practice or research. If the profession wishes to safeguard its own interests, it should not only listen to pleas but instigate 'jobs for the dons,' whose research and practical work is the source of the vitality and integrity of their teaching. Furthermore such work should be undertaken by all staff members and not simply by those who are senior.

Every architect worth his salt spends his life in research, studying his client's requirements, seeking better construction and, if he has it in him, making new works of art.

Certainly some practising architects do research work in the course of designing buildings, but little of this is published and it is therefore not of general value to the profession, except indirectly. One wonders whether the vast majority of architectural firms have time to conduct research and whether they are not more concerned with processes of investigation and invention. As to 'making new works of art,' that is surely a creative and not a research process.

Support from the RIBA

There is not likely to be any marked increase in the volume of published architectural research, put out by the universities or the non-university schools of architecture, until the RIBA takes time to consider the matter and to issue a statement of policy. The universities are under strong pressures, exerted by various groups and interests who wish to see an increase in university research work in their own fields. There is little hope of architectural departments being granted the necessary minimum of the available facilities and funds required to establish continuous research work at the university level, until the RIBA is ready and willing to give the maximum support possible.

This problem is emergent in the United States as well as in Britain and the American Institute of Architects, supported by the National Science Foundation, held a conference in 1959 to consider 'Research for Architecture.' A report on this conference is to be found in the RIBA Library—AIA Journal, Vol. 32, No. 3, dated September, 1959.

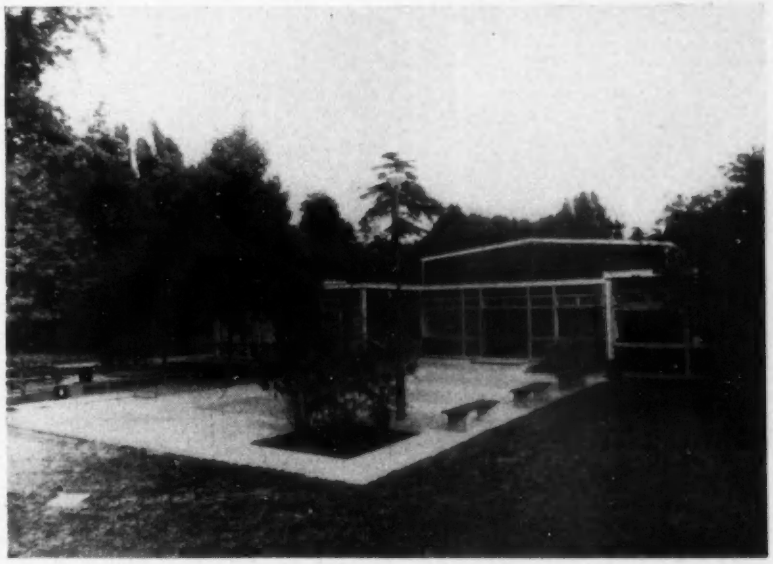
Conclusions

The reasons for the comparative neglect of research in architecture at the universities are related to the fundamental developments in policies of architectural education which took place after the war of 1914-18. At that time fully-recognised and full-time schools came into being. Unfortunately they adopted the Beaux Arts conception of the aims and system of architectural education, which did not stress the importance of academic research.

If full-time and fully-recognised schools had come ten years later the growth of the modern movement would already have revealed the shortcomings of the Beaux Arts system, and made it necessary to approach the problem of educational policy and system analytically and from a basis of fundamental principles. The need for research would have been considered and the word would never have been used as it was in the schools during the late twenties, when one was asked to find several existing doors and windows which one liked, draw them on two sheets of paper, attach a criticism of each one and title the sheets 'Research on Doors and Windows.'

It should have been possible for the schools to revise their thoughts on educational policies in the middle or late thirties, but the passing of the Architects Registration Act had already brought into being an RIBA policy based on the belief that the interests of the Institute would be served best by maintaining the status quo in architectural education. This disastrous decision to use educational policy as a tool in architectural politics may be reversed as an indirect result of the Oxford Conference.

While commercial and government sponsored research organisations do conduct valuable research, it is in the nature of their task to work on research directed towards commercial and industrial ends. More academic research, concerned with the greater understanding of processes of the mind, or with the application of an intense and non-objective curiosity to aspects of architecture and its related fields, is unlikely to be undertaken anywhere if not at the universities.



The three-class primary school designed by Mr. W. D. Lacey, ARIBA, AMTPI, the Nottinghamshire county architect, which is the central feature of the United Kingdom contribution to the Milan Triennale. Details were given last week (p. 151)

Lighting and Health

Claims of the Windowless Building

TODAY, good artificial lighting costs no more than indifferent lighting did 30 or 40 years ago, a lighting expert told a meeting of the Royal Society of Health.

MR. H. C. WESTON, formerly director of the group for research in occupational optics of the Medical Research Council, said in a paper on 'Lighting and Health' that the post-war enthusiasm for generous interior daylighting had led, in some cases, to designs allowing sky and sun glare to be troublesome. He also criticised the 'unnecessary extension' of windows down to floor level.

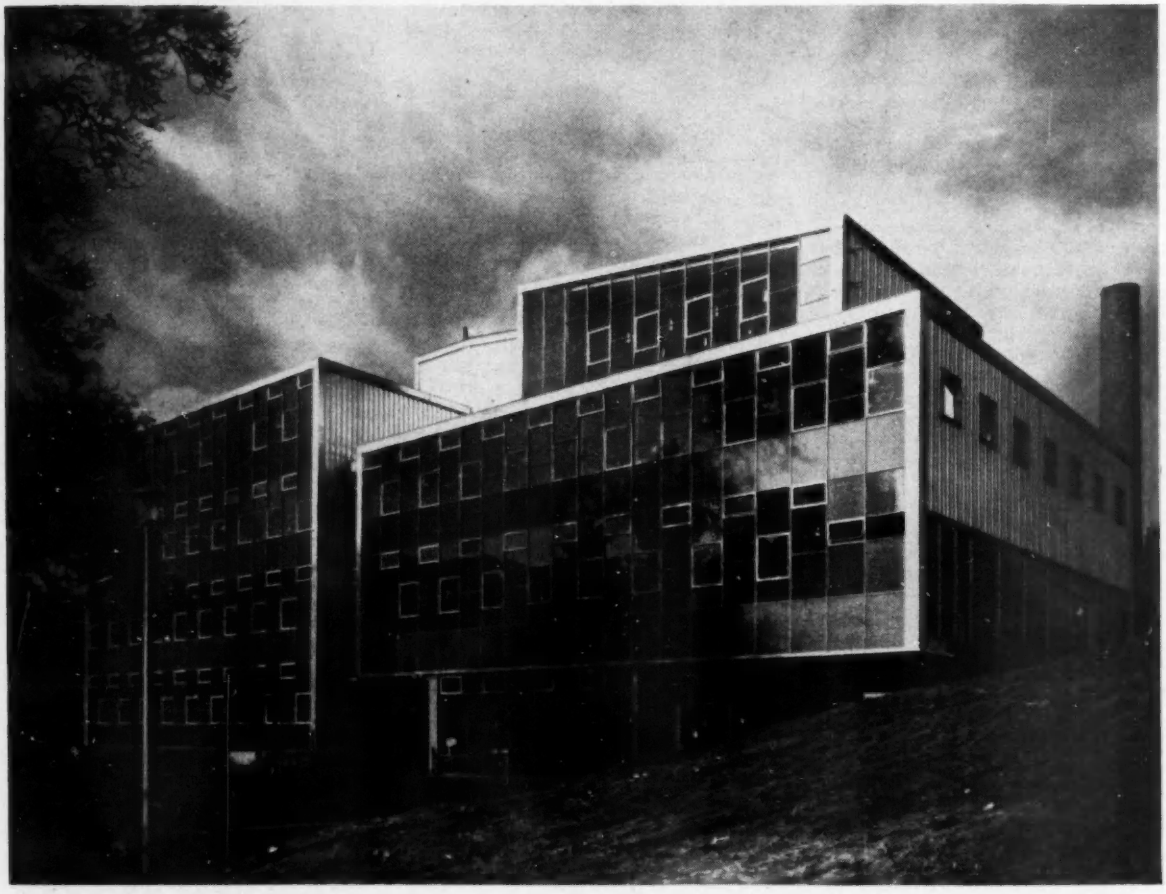
The speaker claimed that the levels of illumination necessary for numerous kinds of work could not be maintained by daylight alone. It had been suggested, therefore, that it might be better not to plan buildings situated in densely developed town areas for utilising daylight as a working illuminant. Instead, windows in such buildings would be dispensed with or incorporated as 'lookouts' rather than useful light sources.

If this idea was forbidding, it was better, he suggested, to have good artificial lighting than bad natural lighting.

Mr. Weston added that some dissatisfaction with fluorescent lighting had arisen—and was still sometimes encountered—on cosmetic grounds.

Ystrad Mynach College, Cardiff

T. ALWYN LLOYD AND GORDON, F/ARIBA, architects
ALUN ROBERTS, BARCH, ARIBA, associate architect in charge



The main block, containing classrooms, laboratories and lecture theatre

YSTRAD MYNACH COLLEGE OF FURTHER EDUCATION, now being built for Glamorgan County Council, is designed to serve a predominently mining and industrial district, to the north of Caerphilly. The work at present being illustrated consists of a main four-storey block containing classrooms, laboratories, a lecture theatre to seat 100, administrative and staff offices, and of a separate two-storey workshop block. The College is ultimately to be extended to provide an assembly hall, gymnasium, and further teaching and administrative accommodation.

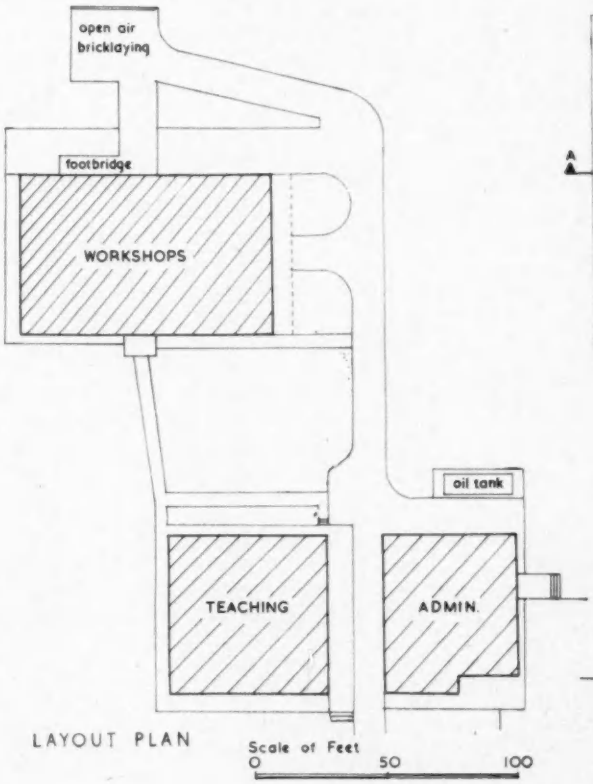
Although there are no workings under the site at present it was considered necessary to take precautions against possible future mining subsidence. Up to the time the College was designed (1955) normal practice had been to limit building to a single storey. It was decided however, on the advice of the late Mr. Felix Samuely, to depart from this practice for this College, and to build a rigid structure of several floors, bearing on the ground at a limited number of points. Facilities are provided for relevelling the building in the event of subsidence by inserting hydraulic jacks at these points of support.

The workshop block is a two-storey structure 103 ft. long by 61 ft. wide. The four-storey teaching block is 136 ft. long by 61 ft. wide, but is in fact two buildings entirely separated by a 3 in. structural break. The method of construction is similar for all three blocks. Each unit has two mass concrete pier foundations, approximately 15 ft. x 15 ft. x 10 ft. high, and spanning over these piers is a post-tensioned hollow foundation beam, 11 ft. wide and 5 ft. deep. From this beam rise two rows of 'in situ' reinforced concrete columns, supporting post-tensioned concrete trusses 61 ft. long which cantilever 25 ft. each side of the columns. These trusses are of lattice construction 4 ft. deep at the centre tapering to 7½ in. at the extremities. This construction results in all loads being transferred to the foundation beam.

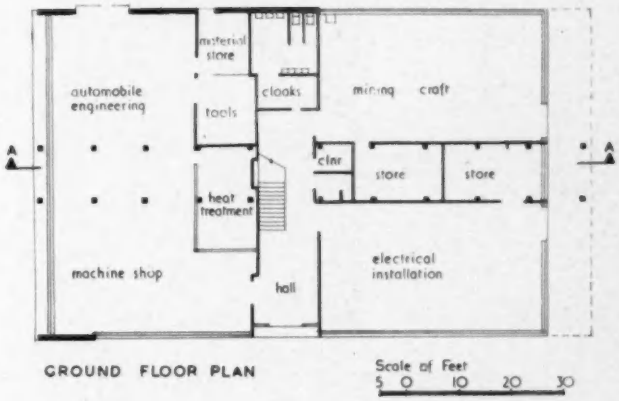
Flooring and partitions are kept as light as possible and the the external cladding is aluminium sheeting and aluminium curtain walling. The use of curtain walling on this contract is logical, as the cladding is hung from the upper floor and does not even rest on the ground floor slab, but is merely anchored at this point to prevent lateral movement.

Several problems arose in the design of the curtain wall. The ground floor slab is not suspended, and in the event of subsidence, there will be differential settlement between the ground floor and the superstructure. As the curtain wall is suspended from the first floor, a sliding joint, to

FELIX J. SAMUELY & PARTNERS, consulting engineers
WILLIAM MOSS & SONS LIMITED, general contractors



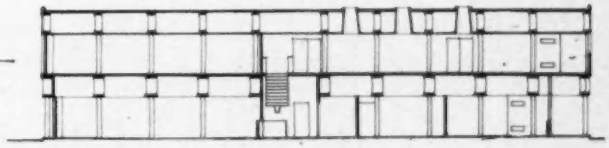
LAYOUT PLAN



GROUND FLOOR PLAN

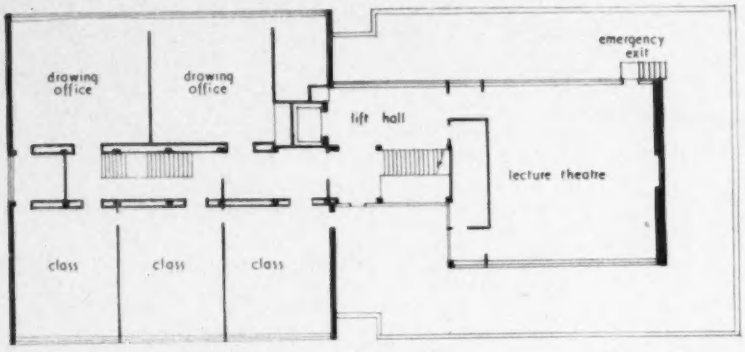
Scale of Feet
5 0 10 20 30

WORKSHOPS, PLAN AND SECTION

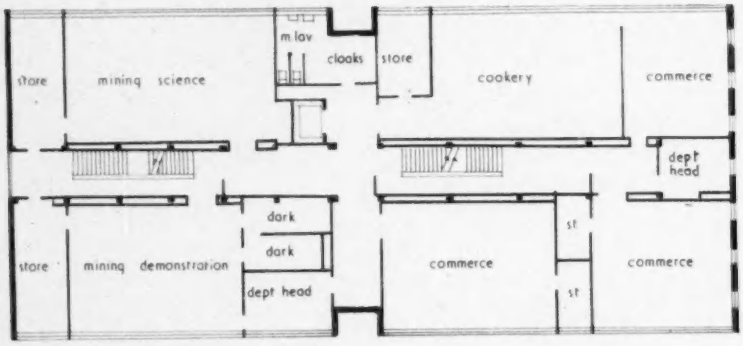


SECTION A-A

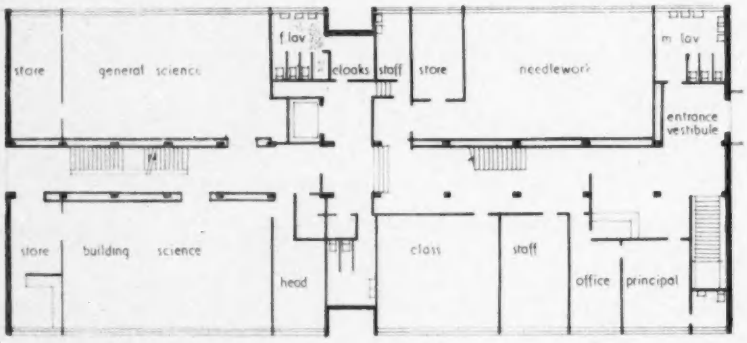
Exposed cantilever truss, workshop block, which transfers all loads to the central foundation beam



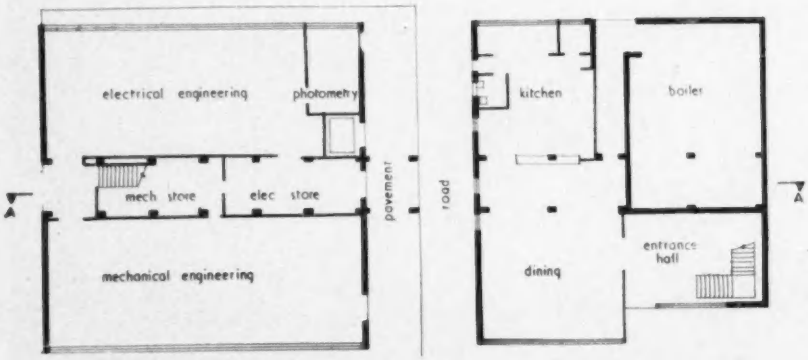
THIRD FLOOR PLAN



SECOND FLOOR PLAN



FIRST FLOOR PLAN



GROUND FLOOR PLAN
PLANS OF CLASSROOM BLOCK

Scale of Feet
5 0 10 20 30

allow vertical movement, had to be provided at this point.

Post-tensioning of the concrete beams resulted in upward cambering, the amount varying with the degree of stress. Ends of trusses could not therefore be levelled as on normal structures, so that levelling facilities had to be provided at the connection of the curtain walling to the beam.

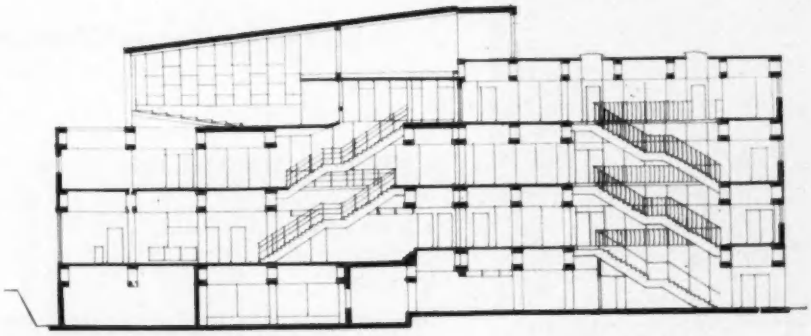
Pre-stressed concrete is very much more flexible than normal reinforced concrete, and sudden movements of live-loads could produce deflections of up to 1 in. at the extremities of the trusses, causing a warp of the curtain wall members and fracture of glazing and infil materials. This was overcome by suspending the curtain wall on springs which would take up the movement and permit the trusses to deflect in relation to the curtain wall.

At the 3 in. structural break in the main teaching block, two types of movement could take place. The two buildings could either tilt towards each other, closing the gap, or alternatively could open apart. A sliding joint had therefore to be included, which allowed for movement in either direction.

Aluminium fascia pressings, cills, blind boxes and closers were provided as an integral part of the curtain wall.

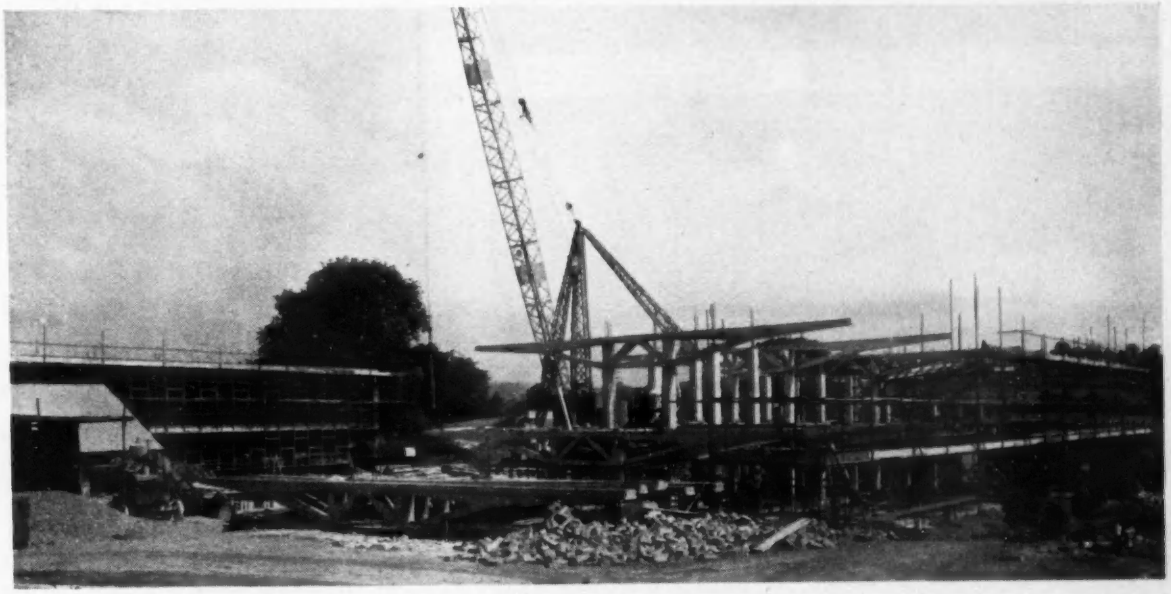
Other points of interest are the use of concrete as a finished surface. The chimney stack, 60 ft. high, is free standing and is built of circular exposed aggregate concrete units. The staircase consists of a cranked concrete spine beam, with pre-cast polished concrete treads only 2½ in. thick. The staircases provide an interesting structural problem; as they run longitudinally through the main block (between the two rows of columns) the centre portion of certain trusses had to be omitted. Where this occurs, half-trusses are used, anchored in position by 'in situ' post-tensioned concrete lattice construction and a post-tensioned ring beam.

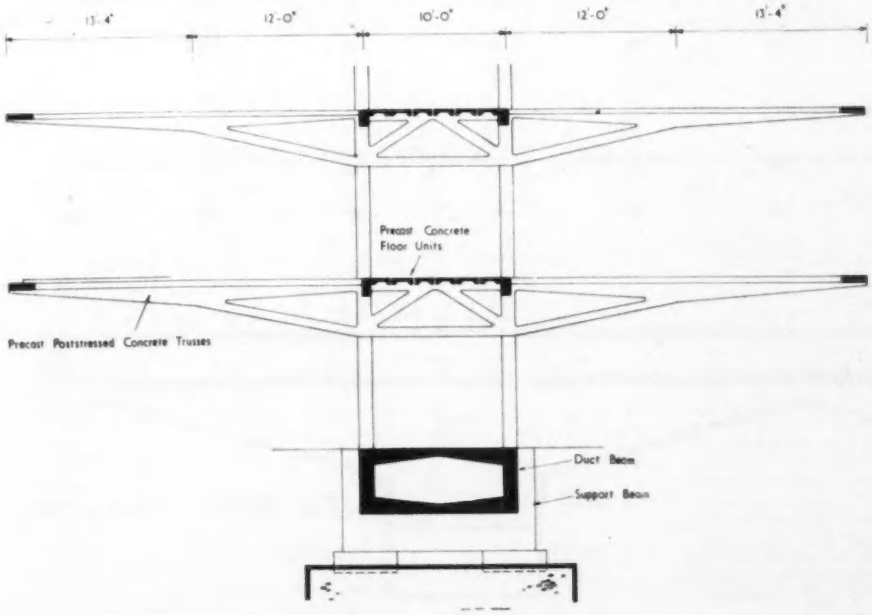
All the pre-cast units were formed on site including the trusses weighing up to 10 tons, and the contractor was successful in working to unusually rigid dimensional tolerances.



SECTION A-A

Progress photo below shows the cantilever trusses stacked and being hoist into position. The contractor was required to work to unusually fine dimensional tolerances. Top chord members were cast and prestressed with Macalloy bars before the remainder of each truss was cast





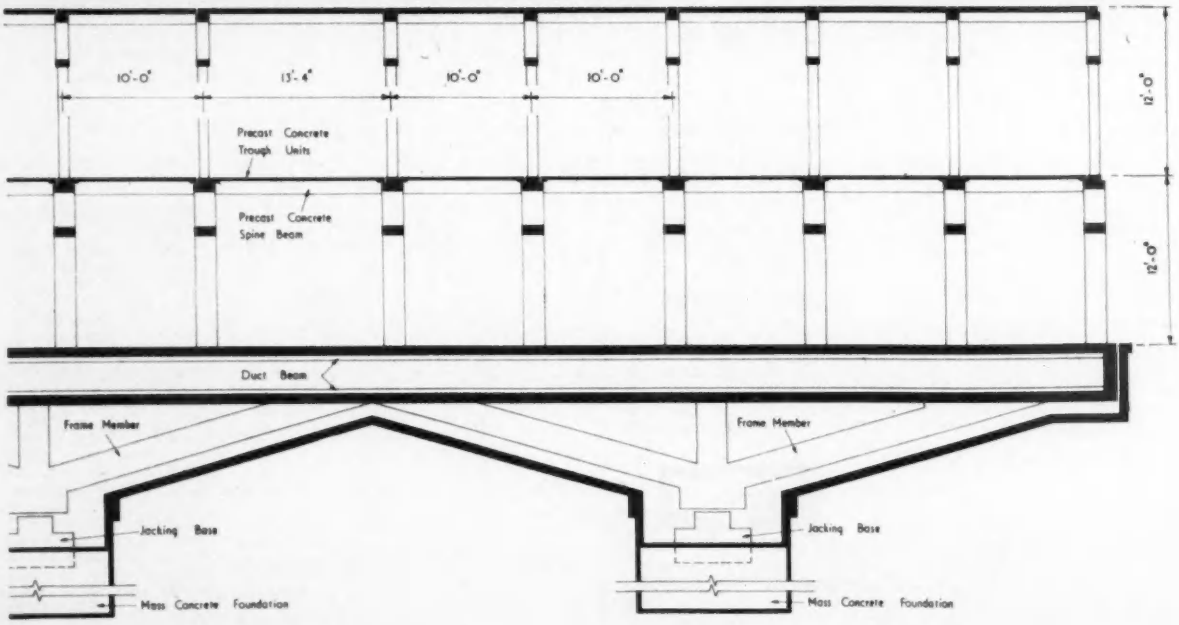
PART SECTION
CLASSROOM BLOCK
Scale : 1 in. = 12 ft.

Sub-Contractors & Suppliers:

Curtain wall: John Williams (Cardiff) Ltd.; *heating:* J. G. Proger & Sons Ltd.; *electrical:* Hartley Installations Ltd.; *lift:* Express Lift Co.; *asphalt roofing:* Pure Rock Asphalte; *Asbestolux ceilings:* Peters Contractors; *ironmongery:* Parker, Winder & Achurch Ltd.; *'Snap-rib' sheeting:* John Bland & Co.; *pre-cast stack:* Costain Concrete; *pre-cast stair:* Penarth Concrete Co.; *flooring:* Semtex Ltd.; *hardwood flooring:* Robinson, David (Floors) Ltd.; *sanitary fittings:* Adamsez Ltd.; *handrails:* Tom Smith & Clark Ltd.

Ystrad Mynach College

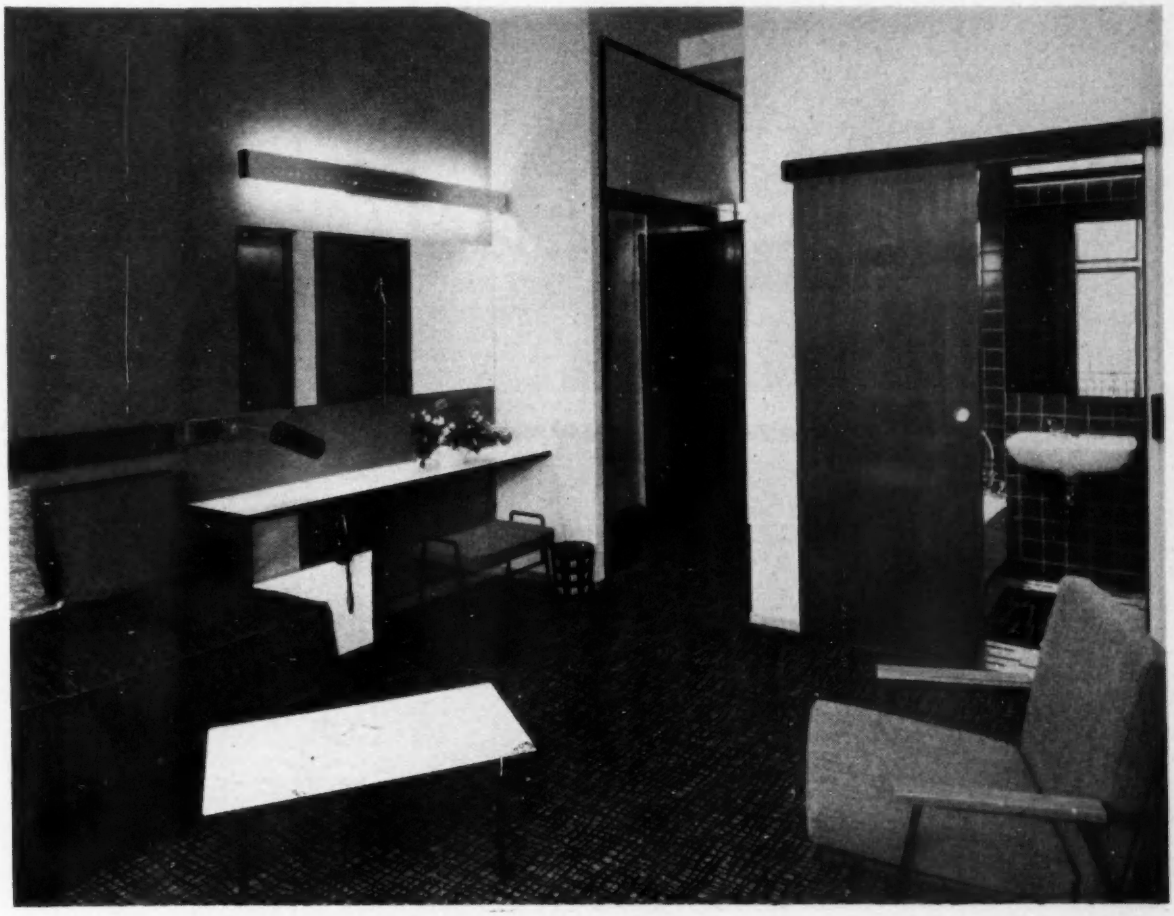
Left, typical classroom, and the lecture theatre. Below, spine beam staircase which has 2½ in. thick precast polished concrete treads. Bottom, longitudinal section through foundation beam and jacking bases, scale: 1 in.=12 ft.



The Londoner Hotel, W1

GLEN REES, architect

M. H. REES, BSC (ENG), AMICE, consulting engineer



All bedrooms have private bathrooms, and local heating and ventilation control points

NEW BEDROOM LAYOUT, 1st. to 5th. FLOORS
SCALE: 1 in. = 16 ft.

THE LONDONER HOTEL, Welbeck-street, W1, was opened on June 15, 1960, and is a complete replanning and renovation of the former Welbeck Hotel. The Edwardian façade of the old building has been retained. The hotel is operated by the Washington Group for Grand Hotels (Mayfair) Ltd.

Some £250,000 have been spent on the conversion and furnishing to bring the hotel up to present-day standards of amenity and comfort. A total of 122 rooms are provided accommodating 220 guests. Each bedroom (single or double) has a private bathroom with sliding door access and full height wall and floor tiling. Basins have a single automatic mixing tap. Room services include television, radio or constant background music, and control panel for operating the degree of heating and ventilation. Wardrobes have shelf fitments and sliding doors, and a dressing table and stainless steel luggage rack unit are provided along one wall with a continuous mirror above. Connecting rooms and suites are provided with settees to allow the rooms to be used as sitting rooms or bedrooms.

The air-conditioned Banqueting Suite has a floor area of nearly 5,000 sq. ft. and sound-proofing and an elaborate public address system have been given special attention. The acoustics are, therefore, of a high

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Appointments

LEEDS UNIVERSITY has appointed Mr. R. Furneaux Jordan, ARIBA, AADip., as Hoffman Wood Professor of Architecture for the session 1960-61.

MR. ARTHUR LATHAM, ARICS, MTPI, deputy planning officer for Derbyshire, has been appointed planning officer for the county to succeed Mr. M. J. Hellier, OBE, MTPI, who retires in September. Mr. Hellier has held the post since 1948.

MR. G. W. GELSON, ARIBA, has succeeded Mr. G. R. Clayton, FRIBA, recently deceased, as county architect at Durham. An obituary notice appears on this page.

Vacant Post, Colchester

COLCHESTER BOROUGH COUNCIL are inviting applications for the appointment of a Borough Architect. Salary is £1,655 to £1,925 per annum. Details advertised elsewhere.

Sir Jacob Epstein's Estate

SIR JACOB EPSTEIN, the sculptor, left estate in Great Britain valued at £55,972 gross, £40,473 net (duty paid, £313).

Professional Announcements

MR. DOUGLAS A. SMITH, ARICS, AIARB, chartered quantity surveyor, has moved his London office from 29 Manchester-street, W1, to Ormond House, 15 Great Trinity-lane, London, EC4 (tel: City 0866).

MR. A. H. PRINCE, MTPI, AMICE, who is retiring after 28 years as planning officer to Buckinghamshire County Council, is joining A. C. Frost & Co., the Buckinghamshire firm of estate agents and auctioneers, as a full-time planning consultant.

MESSRS. T. DUNWOODY & PARTNERS, consulting engrs., of 25 Bruton-lane, Berkeley-square, London, W1, have taken into partnership MR. R. W. CROSS, AMIEE, DIP. MIES.

Coming Event

WEDNESDAY, AUGUST 3

THE DEVON GUILD OF CRAFTSMEN.—Opening of annual exhibition by the Lord Roborough, Civic Hall, Totnes, Devon. 4 p.m.

Obituary

André Coyne

THE DEATH HAS TAKEN PLACE in Paris of M. André Coyne, the eminent French engineer and designer of the Kariba and Frejus dams. Altogether he had designed over a hundred such structures in many parts of the world. He was 69. It is a matter of regret that the collapse of the Frejus dam, in December of last year, should have cast a shadow over his magnificent career, though a subsequent inquiry made it clear that no mistake was made either in the calculations for the structure or in its building, which was supervised by Coyne himself. The report stated that the disaster was apparently due to a fault in the rock to which the main structure was linked by a concrete shoulder. M. Coyne had been in private practice since 1946, previous to which he had been in the Service des Ponts and Chassees of which he became in 1941 Inspector-General.

Gerald Clayton, FRIBA

MR. GERALD RUPERT CLAYTON, FRIBA, county architect of Durham since 1947, died suddenly at his home on July 22. He was 64, and had been ill for some time. Mr. Clayton designed the new County Hall which is under construction at Durham at a cost of £2m. He was to lay the foundation stone on August 3. He was a native of Blackburn and after studying at the Manchester School of Art held appointments with the East Sussex County Council, and in Stoke-on-Trent and Sheffield.

George Turner, LRIBA

WE REGRET to announce the death of Mr. George Henry Turner, LRIBA, of Scarthoe, Grimsby. He was 66. Mr. Turner commenced in private practice in 1929 and was joined by his son, Neville, in 1952. He was a past vice-president of the Nottingham, Derby and Lincoln Society of Architects and chairman of the North Lincolnshire Branch.

A Hundred Years Ago

From The Builder of July 28, 1860

TOUTING SURVEYORS.—MR. EDITOR.—Can you find a corner in your valuable journal to expose the disreputable practice now in vogue with advertisements for contracts, by a class of men calling themselves surveyors, who are nothing more, in most instances, than bankrupt builders, bankrupt builders' clerks, or their foremen, who have during their reckless career with their former employers picked up a little from attending on legitimate men of business in their vocation as surveyor. Cannot you further aid the profession by advocating a Surveyors' Institute and thereby block out these broken-down builders, bankrupt builders' clerks, and I know of some who were plumbers and glaziers, and others, I suppose, pawnbrokers? A. BUILDER.

They don't take chances —

ask for COLEMANOID

by name!

Castrol Wakefield's garage at their new office block (a development of the Hammerson Group of Companies) has had its floor oilproofed with Colemanoid No. 1. Yet another famous name has been added to the growing list of nationally-respected companies who recommend and use Colemanoid.

Added to the gauging water, Colemanoid No. 1 produces a hard, dense concrete that will not dust or flake under heavy industrial use and is

WATERPROOF
DUSTPROOF
AND OILPROOF

For a cost of from 1/- per yard super Colemanoid No. 1 permanently proofs a sand/cement or granolithic screed 1" thick and greatly increases its resistance to acid attack.

PLEASE WRITE FOR A COPY OF BULLETIN No. 11

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Telephone: ABBey 5911

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Cost Study and Quantity Surveyors

A READER KINDLY POINTS OUT that the Ministry of Education 'Building Bulletin No. 4, Cost Study' was issued in 1951 and not as stated in the Leading article of last week.

Appointments

LEEDS UNIVERSITY has appointed Mr. R. Furneaux Jordan, ARIBA, AADip., as Hoffman Wood Professor of Architecture for the session 1960-61.

MR. ARTHUR LATHAM, ARICS, MTPI, deputy planning officer for Derbyshire, has been appointed planning officer for the county to succeed Mr. M. J. Hellier, OBE, MTPI, who retires in September. Mr. Hellier has held the post since 1948.

MR. G. W. GELSON, ARIBA, has succeeded Mr. G. R. Clayton, FRIBA, recently deceased, as county architect at Durham. An obituary notice appears on this page.

Vacant Post, Colchester

COLCHESTER BOROUGH COUNCIL are inviting applications for the appointment of a Borough Architect. Salary is £1,655 to £1,925 per annum. Details advertised elsewhere.

Sir Jacob Epstein's Estate

SIR JACOB EPSTEIN, the sculptor, left estate in Great Britain valued at £55,972 gross, £40,473 net (duty paid, £313).

Professional Announcements

MR. DOUGLAS A. SMITH, ARICS, AIARB, chartered quantity surveyor, has moved his London office from 29 Manchester-street, W1, to Ormond House, 15 Great Trinity-lane, London, EC4 (tel: City 0866).

MR. A. H. PRINCE, MTPI, AMICE, who is retiring after 28 years as planning officer to Buckinghamshire County Council, is joining A. C. Frost & Co., the Buckinghamshire firm of estate agents and auctioneers, as a full-time planning consultant.

MESSRS. T. DUNWOODY & PARTNERS, consulting engrs., of 25 Bruton-lane, Berkeley-square, London, W1, have taken into partnership MR. R. W. CROSS, AMIEE, DIP. MIES.

Coming Event

WEDNESDAY, AUGUST 3

THE DEVON GUILD OF CRAFTSMEN.—Opening of annual exhibition by the Lord Roborough. Civic Hall, Totnes, Devon. 4 p.m.

Obituary

André Coyne

THE DEATH HAS TAKEN PLACE in Paris of M. André Coyne, the eminent French engineer and designer of the Kariba and Frejus dams. Altogether he had designed over a hundred such structures in many parts of the world. He was 69. It is a matter of regret that the collapse of the Frejus dam, in December of last year, should have cast a shadow over his magnificent career, though a subsequent inquiry made it clear that no mistake was made either in the calculations for the structure or in its building, which was supervised by Coyne himself. The report stated that the disaster was apparently due to a fault in the rock to which the main structure was linked by a concrete shoulder. M. Coyne had been in private practice since 1946, previous to which he had been in the Service des Ponts and Chassees of which he became in 1941 Inspector-General.

Gerald Clayton, FRIBA

MR. GERALD RUPERT CLAYTON, FRIBA, county architect of Durham since 1947, died suddenly at his home on July 22. He was 64, and had been ill for some time. Mr. Clayton designed the new County Hall which is under construction at Durham at a cost of £2m. He was to lay the foundation stone on August 3. He was a native of Blackburn and after studying at the Manchester School of Art held appointments with the East Sussex County Council, and in Stoke-on-Trent and Sheffield.

George Turner, LRIBA

WE REGRET to announce the death of Mr. George Henry Turner, LRIBA, of Scarthoe, Grimsby. He was 66. Mr. Turner commenced in private practice in 1929 and was joined by his son, Neville, in 1952. He was a past vice-president of the Nottingham, Derby and Lincoln Society of Architects and chairman of the North Lincolnshire Branch.

A Hundred Years Ago

From The Builder of July 28, 1860

TOUTING SURVEYORS.—MR. EDITOR.—Can you find a corner in your valuable journal to expose the disreputable practice now in vogue with advertisements for contracts, by a class of men calling themselves surveyors, who are nothing more, in most instances, than bankrupt builders, bankrupt builders' clerks, or their foremen, who have during their reckless career with their former employers picked up a little from attending on legitimate men of business in their vocation as surveyor. Cannot you further aid the profession by advocating a Surveyors' Institute and thereby block out these broken-down builders, bankrupt builders' clerks, and I know of some who were plumbers and glaziers, and others, I suppose, pawnbrokers? A. BUILDER.

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'Rebuilding Our Cities'

RIBA Memorandum to Government

THREE PROPOSALS to enable the rebuilding of cities to be effectively carried out are made in a memorandum to the Government prepared by the Royal Institute of British Architects. They are: (1) The appointment of a Minister responsible for Planning and Co-ordination; (2) the appointment of an expert committee charged with studying such issues as bringing under one control the planning functions now exercised by the Ministry of Housing and Local Government and the Board of Trade; and (3) the establishment of an urban renewal and experimental unit to obtain and study the data necessary for town and city reconstruction. The text of the memorandum is:

Text of Memorandum

AT THIS YEAR'S BRITISH ARCHITECTS' CONFERENCE, held at Manchester in June, city reconstruction was discussed, and the atmosphere was one of urgency. The following statement summarises the conclusions then reached:

A. 1. The Conference were concerned with how to achieve in old towns a congenial urban environment for all (for work and pleasure, living and shopping), in a time of intense building activity; and in particular how to reconcile pedestrian safety and enjoyment with the free flow of motor traffic. They were convinced that the legal, administrative and financial framework within which local authorities and private developers who employ architects have to work is jeopardising the chances of solving these problems properly.

While the profession could do with more skilled architect planners and better town planning training, the main need, in a critical situation, is for imaginative leadership and drive from the Government. This has yet to materialise.

2. Meanwhile, much rebuilding is already taking place, and at an increasing rate, in the centres of those prosperous towns and cities that attract the private developer. Such development, however, has so far been piecemeal, whereas comprehensive planned development is essential if local authorities are to provide the new roads, subways, pedestrian areas, upper level pavements, parks, playgrounds and all those features that add character and convenience to a city as a place to live in as well as to work.

3. In contrast to these prosperous central areas are those 'inner ring' districts, as outmoded and ugly as they are inefficient and unprofitable, which must be rebuilt before long but which are allowed instead to decay because public authorities lack the money, and private developers the incentive, to renew them. These are the 'twilight areas' between the centre and the outer suburbs that occur, not only in London (Battersea, Islington and so on), but also in the industrial north, the Midlands, Scotland and Wales, from which the population continues to move, when it can, to the South East in search of better conditions.

B. To meet this situation, the RIBA makes three proposals:

(i) A Minister responsible for planning and co-ordination of development should be appointed. There are various ways in which existing Government machinery could be adjusted to achieve this.

Town and country planning, for which there was a separate Ministry during and immediately after the War, has been relegated to a department within the Ministry of Housing and Local Government, which does not even carry the word 'Planning' in its title. The Minister is preoccupied with many other questions ranging from housing and rent control to local government and Welsh Affairs, yet the size of the planning problem at national, regional and local level is such as to require full-time attention.

The new Minister (or other organisation which the Government consider would meet the urgency of the situation) would take over the planning functions of the Ministry of Housing and Local Government, the distribution of industry (now controlled by the Board of Trade) and the integration of traffic planning with town and country planning on a national and regional basis. Such problems as urban congestion, green belts, the supply of building land and the continued drift of population to South East England cannot be solved by the Ministry of Transport or the Ministry of Housing and Local Government working in isolation.

Expert Committee Suggested

(ii) An expert Committee should be appointed, charged with studying issues such as these:

(a) The likely pattern, in a changing society, of present towns and cities as they could and should develop in the future, with particular regard to the future impact of motor traffic.

(b) The financial problems of comprehensive redevelopment, whether by private or public enterprise, e.g. problems of site acquisition, compensation and betterment, 'unremunerative' areas and amenities.

(c) The procedural difficulties of local authorities in attempting to encourage comprehensive development, whether by private or public enterprise, e.g. the statutory time limit for planning consents regardless of the scale and character of the development, the limitations of CDA procedure, the piecemeal nature of slum-clearance.

(d) The co-ordination of present methods of allocating finance under unrelated headings such as road improvements, slum clearance, housing, public utilities, parks and open spaces.

(e) The best use of limited resources in technical personnel and how to co-ordinate their activities in county, district or Government planning.

(f) Green Belts; and the future demand for land for building and the supply available to meet it.

Need for Research Unit

(iii) An urban renewal research and experimental unit should be established at once to obtain and study the data necessary for town and city reconstruction. This might also service the expert committee above, but it should be free of routine advisory responsibilities, and must be adequately staffed with a wide range of skills. The following are typical of many questions for study, in addition to the financial and procedural problems referred to above:

(a) The present and projected movement of traffic, including pedestrians and the space they require, within urban areas.

(b) The traffic generated by buildings of different kinds and uses.

(c) Alternative methods of car parking in central and residential areas.

(d) New trends in shopping, e.g., the increase in supermarkets.

(e) Re-examination of plot ratios, daylighting standards and other planning techniques.

(f) Introduction of more residential accommodation into central areas and, conversely, of light industry and commerce into housing areas.

This research is needed immediately, for without a forward-looking traffic system, pedestrian and vehicular, there can be no comprehensive reconstruction on a new street pattern; and without a new street pattern many towns and cities must steadily suffocate.

This unit, whether established departmentally, interdepartmentally or even on a consultant basis, should be encouraged, as part of its research, to initiate and carry through, in conjunction with selected local authorities, pilot schemes on an experimental basis. The 'urban renewal research unit' established by the Ministry of Housing and Local Government (the constitution of which was referred to by the Minister in the House on July 12, 1960) is in no sense adequate to this task.

Bank Design in Chichester

Appeal Allowed by Minister

THE Minister of Housing and Local Government has upheld the appeal of Barclays Bank against the refusal of Chichester City Council to grant planning permission for the proposed new bank building in East-street, Chichester.

In deciding in favour of the Bank, the Minister said he had no reason to disagree with the view of the inspector that the design of the building conformed with the traditional character of East-street. The inspector did not consider the design 'impertinent or obtrusive.'

A report of the public inquiry was given in 'The Builder' of July 1.

Criticisms of School Design

Modern Buildings Condemned in Parliamentary Debate

By Our Parliamentary Correspondent

SCATHING condemnation of the current trend in school designs—'this increasing ugliness in school building' and 'this glass shoe-box style with the maximum glare' was his summing up—was made by SIR FRANK MARKHAM in an adjournment debate on July 12.

Sir Frank, who is Conservative MP for Buckingham, said he had extended his investigations over Bedfordshire, Buckinghamshire, Northamptonshire and, in a smaller way, Lancashire. And there was the same story of increasing ugliness in school building. The curious thing was that many schools erected before 1957 were beautiful in balance and design. What had caused the change? He had concluded that while county architects were held responsible for the external and internal design of schools, subject to certain Ministry conditions on cost, space, air circulation and heating requirements, nevertheless, with few exceptions, they studied carefully the bulletins issued by the Ministry giving them advice on design.

The most iniquitous bulletin was No. 33, 'The story of post-war school building.' It was wrongly named and should be entitled 'Instructions to school architects,' for it had almost become their bible. The Ministry made clear that it expected architects to eschew in their school buildings what might be called traditional ornament. In other words, it recommended and advocated the starkest simplicity in design. Consequently there were these modern schools with apparently the flattest possible roofs and walls of glass—just a series of boxes with, here and there, a touch of funny colours.

'Excessive Glazing'

He mentioned some of the schools completed since 1957 which he had seen, including Radcliffe School at Wolverton; the College of Further Education at Wolverton; Winslow, a modern secondary school; and Wing. Wing was redeemed by a lovely sylvan setting, but this and the other buildings showed regularity run riot, with an excessive amount of glazing and nothing to break the severity of design except an ugly chimney at Wolverton, or an eccentric superstructure like a hat box at Winslow. There were even more striking examples such as High Wycombe High School for Girls, probably the ugliest school building erected in the last five years, some of the schools at Aylesbury, and Dunstable Girls' Grammar School and Dunstable Technical School in Bedfordshire. Spoiling the view of Dunstable from the Downs were two buildings of extraordinary ugliness, Dunstable's newest schools. He asked that the Minister should withdraw pamphlet 33, go to the RFA Commission, get it to look at these schools, and report.

His other point concerned the excessive glazing on the south side of classrooms which turned classrooms into incubators or, better still, greenhouses. The Ministry should ask the Department of Scientific and Industrial Research to make investigations in schools on glare, temperature and humidity. His third point was that these new designs cost more than the old. It was extraordinary that windows should be more expensive than walls. For Radcliffe School at Wolverton the cost of blinds or curtains might well be over £1,000. So much of this could be saved if the southern lights were limited and northern lights expanded.

The Ministry's View

MR. KENNETH THOMPSON, Parliamentary Secretary, Ministry of Education, in his reply, said that pamphlet No. 33 was not a directive in any form from the Ministry to local education authorities or to school architects. It was an historic account of what had happened in school building since the end of the war. It was not intended to have any force of recommendation or to contain anything in the form of guidance or precept for the future.

Nevertheless, the Ministry had a part to play in the process of seeing that the schools needed were provided where they were needed, in the numbers in which they were needed and of a kind that would serve the purpose to be achieved.

In the first place the Ministry exercised judgment in the preparation of an overall building plan by which they were able to allot their resources among the various education authorities so that they could see ahead.

The second control was that the Minister had to see that the schools provided achieved at least a minimum standard in terms of functional efficiency in the building. He issued building regulations saying that a school for a certain number of children in a certain area, and in certain conditions, should achieve certain minimum standards. These were simply the functional requirements of the school. They had nothing whatever to do with the design of the school from the æsthetic point of view.

The third control was that the Minister said that a school, finding its place in the programme at a certain time and designed to accord with the regulations set out by the Department, should also be built within a certain ceiling cost set by the Department. The ceiling cost was not an idle 'catch-as-catch-can' piece of guesswork, but the product of a great deal of research. It was the result of the accumulation of a great deal of experience over a long time and extensive study since the end of the war.

The amount of glass had nothing to do with the Minister or his regulations except in so far as the results of inquiries and examinations conducted by the research department of the building industry showed that there should be a minimum admission of light into a school.

All that they might say to the architect was that he must design his buildings so that the windows provided would be of a size if properly sited to admit that amount of light into the school.

As a sequel to the debate, SIR F. MARKHAM put two written questions to the Minister of Education on July 18, asking him to invite the RFA Commission to visit and report upon schools built since 1957, with particular reference to their architectural style and æsthetic value, and if the DSIR would be invited to make inquiries into temperature, humidity and glare conditions in classrooms where the southern walls were totally or almost totally glazed.

SIR DAVID ECCLES wrote in reply: 'It is always open to local education authorities and school governors to consult the RFA Commission and the Commission can ask to be consulted if it considers it desirable. I see no need, however, for an inquiry of the kind suggested.'

On the request concerning glazed classrooms, Sir David Eccles stated: 'Existing knowledge, founded on research and experience, provides an adequate basis for the design of classrooms in these respects. The Building Research Station of DSIR has given much valuable help on these and other aspects of school building since the war, and my officers keep in close touch with the station.'

'Leaky Flat Roof Allegations'

North Riding Schools Under Fire

THE ALLEGATION that not one of the North Riding Education Committee's flat-roofed schools was watertight was made by COUNTY ALD. E. REED, of Thirsk, speaking at a Northallerton meeting on Tuesday, July 12. Criticising the plans of a new school to be built at Malton, Ald. Reed said he went to Thirsk County Modern School with a prize which he had promised, and found in the new part, completed two or three months ago, a dish catching water from the roof.

'We have built a lot of flat-roofed schools,' he added, 'and I have not yet heard of one that does not leak somewhere or other.' He had asked an architect about this flat roof policy and had been told that the Ministry of Education allowed only so much money for each school place, which meant building with flat roofs to save expense. He wondered whether, considering the amount of ratepayers' money which would be spent in the next 20 years on leaking roofs, it would not be better to pay a higher price and get a good pitched roof.

The chairman, ALD. R. S. BUTTERFIELD, said, 'We have built about 70 new schools and in one or two we have had a little trouble with water.' The cost of pitched roofs would be enormous. To obtain proper classrooms and quarters as they were needed, flat roofs were essential.

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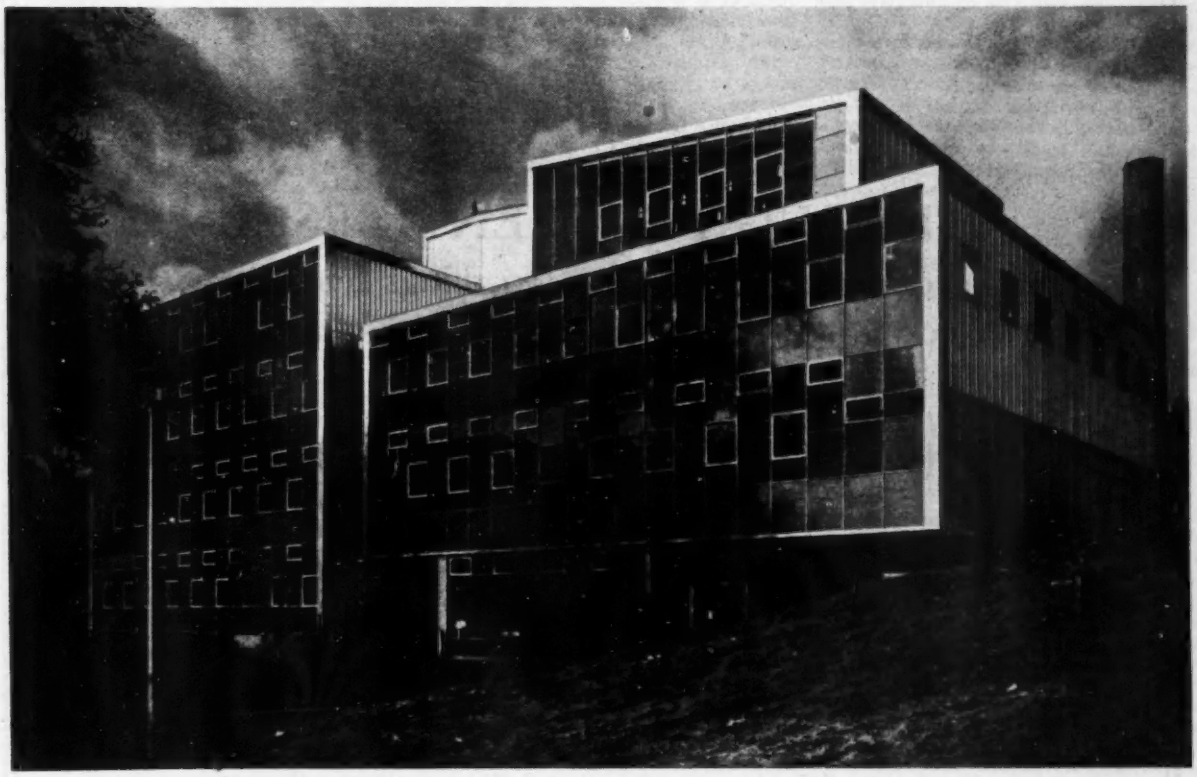

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Contemporary Church Design and Techniques

British and Canadian Views

The eighth annual conference of Diocesan Advisory Committees for the Care of Churches, which was held at Oxford from June 28-30 under the auspices of the Central Council for the Care of Churches, discussed the question of contemporary design and modern techniques in church building. Extracts from the paper by the Dean of Gloucester, the Very Rev. Seiriol J. A. Evans, on 'Contemporary Design in Church Building' are given below, and a summary of the paper by Mr. T. H. B. Burrough, TD, RWA, FRIBA, on 'The Church and Contemporary Building Methods' will be given, we hope, in a future issue. Also are reprinted extracts from an address given in Vancouver by the secretary of the Committee on Church Architecture of the United Church of Canada

Contemporary Design

BY THE DEAN OF GLOUCESTER

THERE is a particular theme in five of our main sessions which involves really controversial issues. These are the sessions which deal with one aspect or another of contemporary design.

First with the design of modern stained glass. Here, although the Dean of York's excellent little treatise, 'How to Choose Stained Glass,' has been widely circulated and read, it is still evident that the level of tolerance in the diocesan advisory committee system is too low. Committees, I know from reading their minutes, rejoiced heartily and vocally over good, original, new work when it reaches them, but I believe they are still letting through stuff which is of an appalling mediocrity and no help to the cause of true religion. Even if the Chancellor eventually grants a faculty on grounds which should weigh with him only, and not with us, you should be unwavering in advising its rejection. That is what we are for—to maintain and raise standards.

New church building and its contingent questions must be of special interest to us, because the Church of England has been somewhat slow in realising the full implication of the challenge here.

Since 1945 a very large programme has been undertaken both in building new churches for the rapidly expanding suburbs and in restoring those elsewhere which suffered major war damage. Four or five hundred at least, either entirely new or virtually reconstructed stand to our credit, but the planning put into the design of many of them is less creditable.

That fault does not lie at our door, because in many dioceses the Advisory Committee is either not consulted, or only sees the plan at a late stage when major change is impracticable. English Church law does not, as you know, require a faculty to be granted by the Consistory Court to authorise any work until after a building is consecrated.

In the result, there are in some of these new churches glaring faults of planning, and a general lack of outstanding architectural quality in their design. As good design can only be the sequel to sound planning, it is to that aspect that we must give the greatest thought, and these two speakers will help us. Both of them, like our speaker on glass, have travelled widely in order to look at new work on the Continent.

Whilst we have much to learn from Continental experience, which is undoubtedly ahead of ours both in planning new buildings for worship, and in clothing the planned interior in an outward form which makes bold and successful use of modern materials and techniques, we shall not want to adopt uncritically all that stems from a tradition not our own. This must apply both to plan and design, and I would commend to you an article on the subject, 'Building New Churches and the Adaptation of Old Churches: Some Reflections on the 20th Century Liturgical Movement,' which will appear in our 14th Report next month. In it we, in the Central Council, have tried to suggest what should be the response of the Church of England to the challenge of the new widespread, and very heartening, liturgical movement.

Full consideration of this vital matter of new church building is important to us all because it will be the subject of a debate in the July Session of the Church Assembly. In that debate I shall press most strongly that the Church makes a more effective use of its advisory committee system, and that you should be consulted in future on all such plans and at an earlier stage.

Another aspect of this theme of contemporary design will be discussed by the Bishop of Llandaff, and concerns principally the adaptation of churches to meet the needs of today. Some clergy are beginning to feel that the planning arrangements of existing churches are hampering their work in building up the worshipping life of a parish. We have to hold the balance between these urgent aspirations and the protection of what is a valuable expression of our own traditional development. These problems are already reaching you, and it will be most useful to discuss them.

A Canadian View on Design

'Restrictive Factors' Present

THE PRESENT STATUS of church architecture in Canada was discussed at a two-day convention in Vancouver in May by DR. J. R. LENG, Secretary of the Committee of Church Architecture of the United Church of Canada, as reported in 'The RAIC Journal' of June, he spoke of the 'restrictive' factors in church design, and some of them are worthy of note:

1. The ever-present lack of funds.

2. The failure of the architect to recognise his relationship to the congregation and the congregation's failure to recognise its role in communicating its requirements to the architect. A full 'reciprocal understanding' of requirements and function is necessary.

3. Church design is suffering from 'stereotype-ism.' Designs are running to pattern. The architect too often stresses space, or light, or structure, and achieves a 'picturesque eclecticism' with repetition of 'worn out ideas frequently transplanted from abroad.'

4. Planning authorities are dictating to the church.

5. The failure to use good art in church architecture. Art forms are often in poor taste, vulgar and cheap. Hence, we must re-evaluate the role of the artist.

In spite of the unprecedented volume of church building in Canada in recent years—Dr. Leng estimated $4-5m. in the past 4 or 5 years and predicted an equal expenditure in the next 4 or 5 years—there is (states our contemporary) ample evidence of a need for careful and searching evaluation of the requirements of the church in the immediate future.

20th Century Requirements

Central Council's Views

THE NEED to plan new churches and to adapt the old in accordance with present-day liturgical requirements is emphasised in the fourteenth annual report of the Central Council for the Care of Churches, published on July 13. The more familiar aspect of their work is the preservation of ancient churches, but they are called upon also to encourage architects and artists to give of their best in the service of the Church. To fulfil this aim, George G. Pace FRIBA, contributes a useful and practical article entitled 'A Plea for the Box Pew.' With the aid of photographs and diagrams he illustrates the charm of the box-pewed interior, and shows how they can be made more convenient for worship and more comfortable.

Both in his Editorial and in a paper entitled 'Building New Churches and the Adaptation of Old Churches: Reflections on the Twentieth Century Liturgical Movement,' the Dean of Gloucester, the Very Rev. Seiriol J. A. Evans, MA, FSA, stresses the need for an adequate theological and liturgical brief to be given to the architect who is called upon to design a church. A contrast is drawn between the interesting and successful church buildings on the Continent, where

this has been done, and the many less successful buildings here, which have been designed for a nineteenth-century pattern of Sunday worship, not relevant to present-day needs.

There is, however, a wise word of caution to those who would like to adopt wholesale the architecture and outward manifestations of the continental Liturgical Movement: they are reminded that the requirements of the Book of Common Prayer are not the same as those of the Roman Missal, and that adequate architectural provision should be made for the reverent and corporate performance of baptism and confirmation, morning and evening prayer, marriage and the burial of the dead.

The Council call for the appointment by the Church of England of a duly authorised body to take seriously the planning of churches for the Anglican Liturgy, just as has been done in some French and German dioceses for the Roman Liturgy.

* 'Both Old and New,' published by the Church Information Office, Church House, Dean's Yard, Westminster, SW1, price 3s. 6d.

'A Table for Eight'

Key People in the Study of Environment

EIGHT PROFESSIONS representing all those who are responsible for the shaping of the land and everything upon it, were itemised and discussed by MR. G. A. JELLICOE, FRIBA, MTPI, honorary president of the International Federation of Landscape Architects, in Amsterdam on June 20. Mr. Jellicoe was giving the opening address to the seventh bi-annual conference of the International Federation. 'As key people in the study of all environment,' said the speaker, 'we have the landscape architect, the architect, the engineer, the biologist, the artist, the town planner and the philosopher. . . . Our conference is not to confer about landscape or architecture in particular, but upon environment as a whole.'

Dealing first with the philosopher, Mr. Jellicoe said he understood him to be the one who ascertained all known facts and from them deduced a meaning and purpose for life. The art of the landscape architect was to interpret the emotions of the time, and he had therefore to be aware consciously or unconsciously of changing and widening conditions. Such an identity between the creative artist and his idea of the universe seemed to him to be paramount. Philosophy was no exception to the modern tendency for all professions to disintegrate into specialised fields, and the conference was concerned with the philosopher-planner, who was essential to our existence. The practising town and country planner was so involved in day-to-day affairs that he had to have guidance in his policies.

The Town and Country Planner

This title, continued the speaker, was probably peculiar to England although there were very few private practitioners, because all planning was now state-controlled through county planning authorities. The county planning officer, therefore, had the gravest responsibilities to the community, he was potentially the most important professional of all, and his effect upon his community could in theory be more beneficent or more devastating than any other.

'The town and country planner is concerned primarily with the proper use of land. No individual can hope to be master in all the facets of the works for which he is responsible, and he therefore has an office that contains specialists such as the sociologist, the architect, and the landscape architect, who are there to advise rather than to practise. In England his findings are subject to the approval of his lay planning committee, and technically to the Ministry of Housing and Local Government.

'We find that the ideal of the town and country planner is something of an administrator, a diplomat, a critic, a mathematician, a humanist, and, I think, a poet; and perhaps above all a man of vision. He is not a creative artist in his own right, but he is fully appreciative of the arts. His work is diagrammatic until he has called in those two parties who interest us most, the architect and landscape architect.'

Mr. Jellicoe turned next to horticulture, a branch of the science of biology and therefore itself a science. As a science, he continued, there was no theoretic problem in relation to landscape architecture, for it was concerned only with facts—a multitude of facts calling for a multitude of specialists. It provided exact data upon which the landscape architect, if he was wise, would come to rely. There were, however, two problems that intimately concerned the landscape architect: the first was the human element among horticulturists, and the second was the economy of the supply of plants.

'The term, engineer, covers all the physical sciences, and he should therefore present no problem to the landscape architect, to whom, as to the architect, he should supply facts and advice. The excellence of this advice depends upon the individual engineer, for, unlike the horticulturist, the young man versed in sound theory can come to the fore very quickly. He can change inert matter, such as a bridge, into something that is virile and intensely exciting. Occasionally, like Luigi Nervi of Italy or Ove Arup of England, he is a poet of the highest order, but even so he does not distort his material for emotional reasons, like the artist. We should, I think, continue to regard him solely as a scientist.'

The speaker reminded his audience that of the more instant problems that faced the landscape architect in England none was so pressing as the quantity and scale of engineering works.

'The architect,' he continued, 'is first and foremost an artist, for he is ultimately concerned with the distortion of materials from their true function to contain, express, and convey an emotion. Between them, the architect and landscape architect are responsible for the whole physical environment. There is a generous collaboration between the two professions, which promises in England to continue next year under the president-elect of the Royal Institute of British Architects, Sir William Holford, who is himself a trustee of our own institute.

Landscape Architecture

'The profession of landscape architecture is so wide in its ramifications that it is extremely difficult to comprehend what are its limitations. It is perfectly possible for a landscape planner concerned with the lay-out of a country zone, including the grouping of buildings and roads and land forms, to commission another landscape architect to prepare a detailed overall plan including planting, who in turn would commission yet a third member of our species to design the small individual domestic garden within the whole.

'This range surely is unique, and it does not require great vision to appreciate that if the world remains stable, it will fall upon the landscape architect to form the ultimate counterbalance to the engineer. If, in the meantime, his profession is hard; with poor but heroic education; with an unattractive promise of material gain; with work so exacting, changeful, and moody, as to tire the patience of anyone else; still, there is the knowledge that he is groping his way to a considerable future and that he has with him even today the possibility of an art that leaves us breathless.'

After brief reference to the sculptor and the artist Mr. Jellicoe ended on a somewhat philosophical note. He said that the eight members of the planning quorum had risen above their own individual selves, and each could not exist without the others; yet their personalities remained in their full individual integrity.

Making-up Private Streets

A Guide to Engineers

ONE of the many problems facing local authorities is the making-up of private streets to acceptable standards of construction at a reasonable cost to the frontagers, and the Road Research Laboratory outlines a number of methods in a Road Research Note* published on July 26.

Economies recommended are based on the experience of local authorities and can be effected by making the best use of existing construction as well as cheap local materials in new road works.

The recommendations given are for roads carrying light traffic of up to forty-five commercial vehicles (of unladen weight exceeding thirty hundredweight) each day.

* 'A Guide to Engineers on the Making Up of Private Streets.' Road Research Note No. 26. Published by HMSO for the Department of Scientific and Industrial Research. Price 1s.

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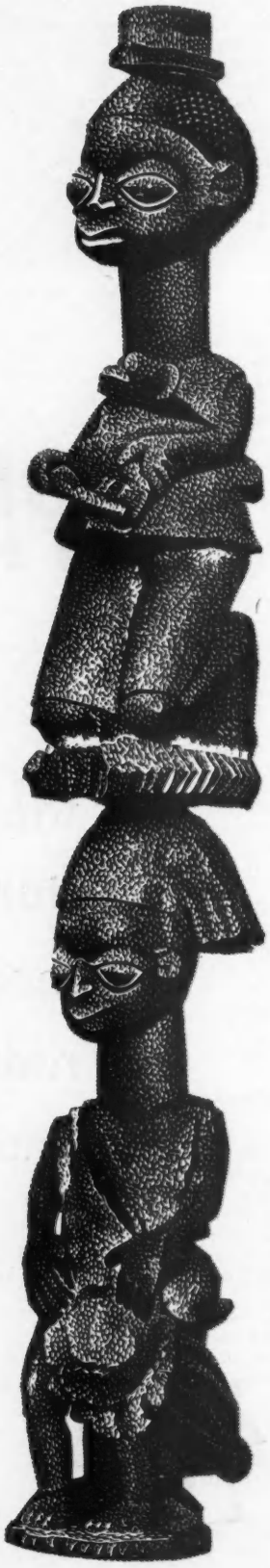


The Institute of Builders

Examination Regulations and Syllabuses

LAST WEEK the Institute of Builders published its 'Regulations and Syllabuses for the Professional Membership Examinations' (48 Bedford-square, WC1, price 2s. 6d.). The publication contains regulations made by the Council governing the revised scheme of examinations to be held in and after 1961; this scheme is an important part of the Institute membership and examination structure which is shown in the accompanying diagram.

The publication consists of an introduction in which are set out the aims of the Institute, its main classes of membership, corporate and non-corporate (the latter including the Registered Foreman class, introduced in May, 1959) and its general activities which are conducted through the branches and include the Discussion Club which functions in London and six other provincial centres.

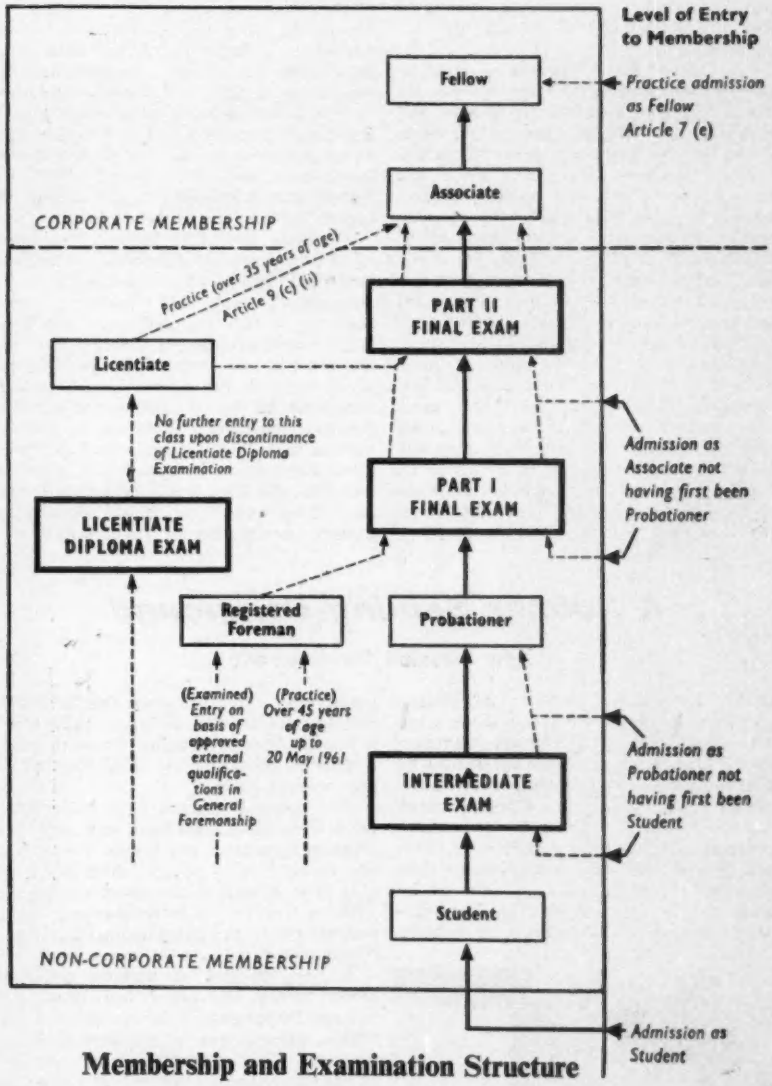
Qualifications for membership are as Student, Probationer, Associate and Fellow, and the aim is that, within aproximately two years, admission to the institute and progress to the class of Fellow will be only on a ladder whose rungs are now clearly recognisable. Students will pay an annual subscription of £1 11s. 6d. and an admission fee of £1 1s.; Probationers an annual subscription of £2 12s. 6d. and an admission fee of £2 12s. 6d. (unless they have proceeded from the students' class in which there is no fee); Associates pay a subscription of £6 6s. (overseas £5 5s.) and a transfer fee of either £2 2s. or £6 6s., depending on whether they have come up through the Part II final examination or through practice; and Fellows, while paying no transfer fee, will annually subscribe £10 10s. (overseas £7 7s.). The new category of Registered Foremen who, like students and probationers, enjoy all rights of corporate members except that they have no voting rights, pay an admission fee of £2 2s. and an annual subscription of £3 3s.

Admission Qualifications

The publication gives clear guidance on the qualifications for each class of membership and for exemption to the Intermediate and Part I Final exams. These are based solely on educational status and ability, and the qualifications acceptable are clearly outlined. For the next two years there must necessarily be some duality of the system of admissions; an immediate beginning is being made with entry up the new ladder from Student to Associate, but the road by which Associateship can be gained via the Licentiate Diploma Examination for those over 35 years of age, and for the Licentiateship itself, will not be closed until September, 1963, to allow those at present committed to the courses to qualify. Until May next, the road to membership of the Registered Foreman class for approved applicants over 45 years of age will also remain open; after that date entry will be by examination only.

The booklet (which is well-produced and printed) gives a concise summary of the various examinations and also lists exempting qualifications for Part I of the Final examinations; no exemption, however, will be granted to Part II of the Final Examination.

Simultaneously, the Institute publishes (1) specimen examination papers, (2) notes for the guidance of lecturers in Law and Economics, and (3) suggested reading lists. All these may be obtained free on application to the Secretary, the Institute of Builders, 48 Bedford-square, London, WC1.



Membership and Examination Structure

Quality Control

International Conference at Westminster

EVERY MANUFACTURER is concerned with the problem of determining and then maintaining the appropriate standard of quality of every component of each product he makes. The standard of each component will depend on a number of factors including available capital, the length of time the product will be in use, stress, extent of usage, etc.

Some British manufacturers have long recognised the rôle which modern quality control techniques can play in helping to determine and maintain quality methods. Unfortunately, the extent of application of these methods is not particularly widespread.

So important is the subject of quality control that an international conference will take place at Church House, Westminster, on September 1, 2 and 3, when some leading authorities on quality control will participate. Further details may be obtained from the British Productivity Council, 21 Tothill-street, SW1.

Fire Precautions at Planning Stage

Worcester Fire Officer's Forthright Observations

IN HIS TWELFTH ANNUAL REPORT to the Worcester City and County Fire Brigade Committee MR. G. EASTHAM, MIFIRE, chief fire officer, expresses amazement at the complete absence of provisions in the Planning Acts to allow for safety from fire. 'Evidently,' he says, 'it was accepted that you could plan for amenity but not for safety.'

The report states that in Worcestershire it was established that observations could be passed at the planning stage and some control was put on certain categories of risk. The new Caravan Sites and Control of Development Bill, 1960, was anticipated by covering certain requirements for fire precautions in caravan sites. Emphasising the importance of observations at planning stage, Mr. Eastham states that the recent Glasgow tragedy fortified his view that safety from fire as a planning matter should be firmly established by the responsible Ministers.

Disappointment at the lack of foresight in these matters is expressed by Mr. Eastham when he mentions that until comparatively recently it had been agreed that special protection or means of escape were required if a person lived over 20 ft. from the ground—a reasonable distance to drop being one floor. 'I do not accept the view,' he continues, 'of the Ministry of Housing and Local Government who are attempting to push the height to 42 ft., the distance reached by a first brigade escape appliance. A person should be able to escape by his own efforts in the event of delay in the arrival of the Fire Brigade.'

Turning to Ministry and housing authorities' desire to build flats and maisonettes as cheaply as possible the report states that reasonable extra protection could be provided at very limited additional cost. A Code of Practice was being prepared by the British Standards Institution and this should help to standardise provisions of the means of escape in this type of dwelling.

Materials used for thermal insulation came in for considerable criticism in this forthright and constructive report. 'In December,' states Mr. Eastham, 'the Ministry of Housing and Local Government issued new model building by-laws on thermal insulation. These by-laws allow materials for thermal insulation not permitted by the regulations under the Act covering factory premises, since they have a high flame spread characteristic. Lives are lost in homes, rather than in factories, and I am firmly of the view that such dangerous linings should not be permitted, particularly on lower floors, the stairs, and the escape routes of domestic property. It has been proved by experiment that similar linings can decrease the "flashover" time in building and thus decrease the time available for escape and rescue. I hope borough and district councils will not adopt the by-laws or amend the model that has been issued.'

A Rubber Sealing Compound

New Swedish Development

SEVERAL new uses for rubber in building and other branches of construction have been developed by a Swedish manufacturer. One technique is the application of a semi-fluid compound based on synthetic rubber to seal the joints of prefabricated concrete elements. Prior to application, which is by spraygun, the compound (Trebofog) is mixed with an accelerator thus enabling the vulcanising process to be completed in about seven days. The compound is free of dissolvents or volatile ingredients which can evaporate or cause shrinking or drying. A foam rubber strip is placed in the joint before the compound is applied obviating the need for caulking in most cases.

A spraygun used to apply the semi-liquid rubber compound into the joints of prefabricated concrete elements

This jointing medium, it is claimed, is impervious to damage from rain, sun and other atmospheric conditions. It has a life expectancy of several decades; it is able to withstand variations in movement without cracking or loosening; and has a reliable tightening effect against the often rough edged surfaces of the joints.

A new method of making concrete sewer joints leak-proof has been developed by the same firm in collaboration with a manufacturer of concrete drainage systems. The latter has evolved a method of precision-shaping the ends of the sewer elements and a rubber ring, suitable for rolling into the joint, has been made. Strict requirements for hardness, breaking point, ageing, and water absorption have been taken into consideration so that the ring will outlast the expected life of the sewer.

Nuclear Plant, Anglesey

THE Central Electricity Generating Board has abandoned a proposal to establish a nuclear power station at Edern on the Lleyn peninsula in favour of a site at Wylfa Head on the north coast of Anglesey. Amenity and economic reasons are given.

Cricket

RIBA XI Defeat the AA

THE ANNUAL MATCH between the RIBA Cricket XI and the Architectural Association was played at Boreham Wood on June 15, resulting in a win for the RIBA by 96 runs. Five RIBA wickets were down for 32 but Beeston, Michel and Marlow improved the situation and the architects were able to declare at 151 with two wickets still in hand. The AA, apart from Cross, could make little headway against accurate bowling by Spooner and Stevens, supported by good catching, and were all out for 55. Scores:

RIBA

G. Batty l.b.w. Lamming	7
A.E.J. Morris c. Evans b. Lamming	0
B. Nicholls l.b.w. Etherton	3
W. Spooner b. Lamming	8
D. L. Robinson c. Marshall b. Etherton	9
W. Beeston retired hurt	29
P. Michel l.b.w. Etherton	34
A. Marlow not out	25
R. Norton b. Lamming	7
R. B. Hellard run out	6
D. Stevens not out	10
Extras	13
(For 8 wickets declared)	151

Etherton, 3 for 44; Lamming, 4 for 73; Currimijee, 0 for 11; Hodivala, 0 for 10.

ARCHITECTURAL ASSOCIATION

Marshall b. Stevens	2
Evans c. Michel b. Spooner	0
Cross c. Michel b. Spooner	21
Dunham c. Norton b. Stevens	1
Etherton c. Nicholls b. Spooner	6
Lamming b. Stevens	0
Jallo b. Spooner	4
Hodivala b. Spooner	5
Currimijee not out	10
Wood c. Norton b. Batty	5
Extras	1
	55

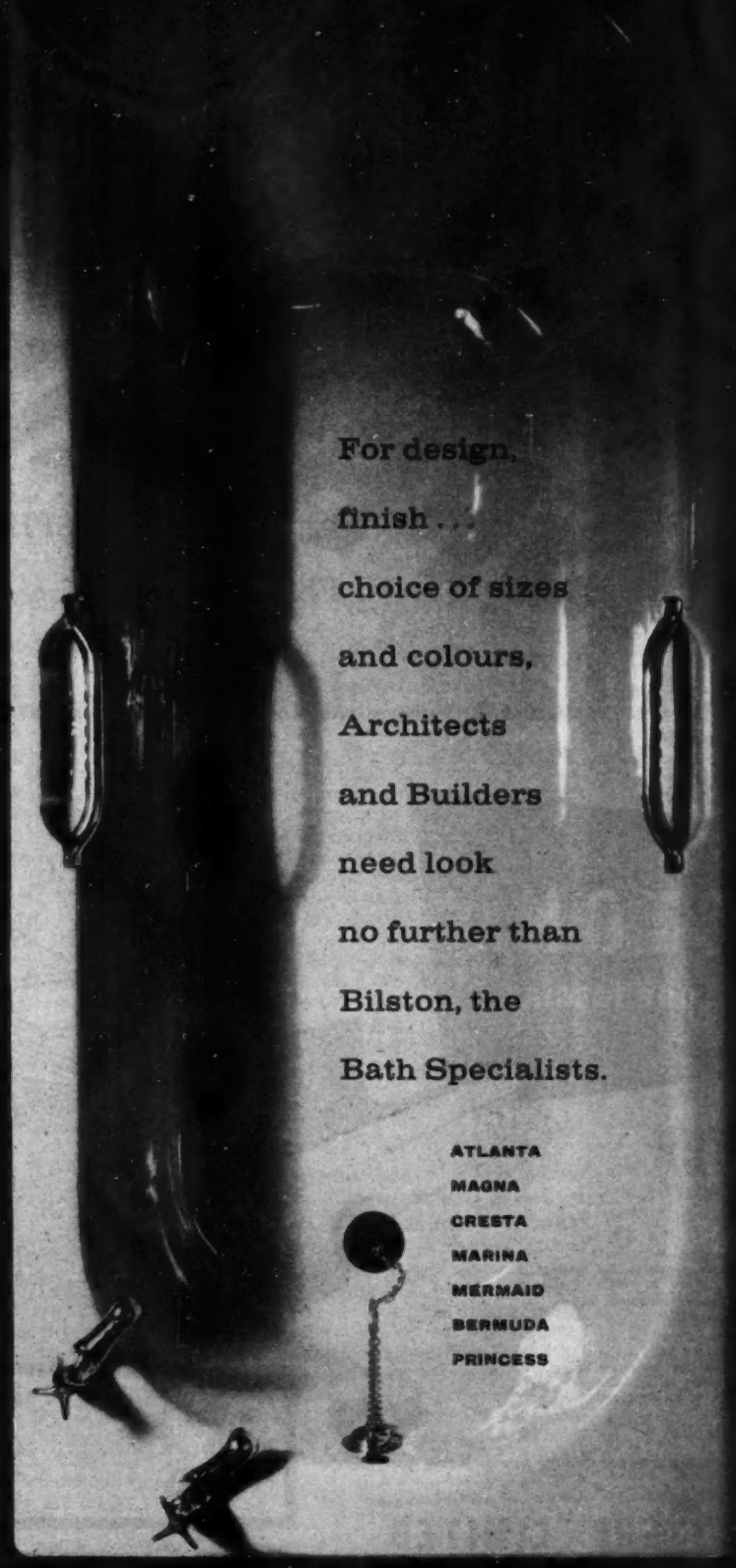
Stevens, 3 for 16; Spooner, 5 for 35; Batty, 1 for 3.

In other games, the RIBA had a comfortable win over the Blue Circle at Bromley on May 25 scoring 186 for 8 (C. Smith compiling a meritorious century) against the Blue Circle's 107. Smith followed up his hundred by taking 4 wickets for 27. A. Morris also took four for 15.

The annual game against the LMBA, played at Earlsfield on July 19, was abandoned because of rain, after Fred Vidler (75) and S. Wright (51) had put on 135 for the first wicket without loss.

Architects lose to Surveyors

THE LANCHESTER & LODGE cricket XI entertained their opposite numbers from Wakeman, Trower & Partners at the AA ground on July 20 when they lost by 14 runs to the quantity surveyors for whom top scorer was A. Scott with 23 not out. Top scorer for the architects was N. Ponniah with 31. Lanchester & Lodge recovered some lost ground by winning the darts match played in the pavilion afterwards.



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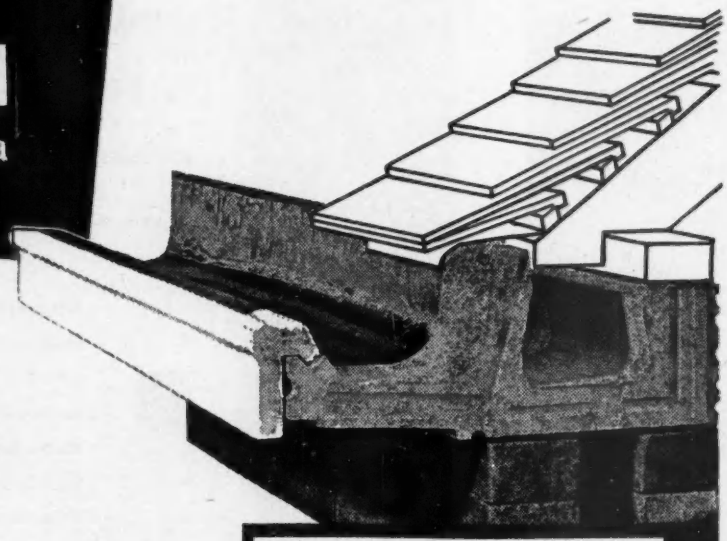

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Shoddy Building Work

National President's Warning on Discreditable Firms

MR. D. E. WOODBINE PARISH, National president, speaking at the half-yearly general meeting of the Northern Counties Federation of Building Trades Employers, at Croft Spa Hotel, near Darlington, on July 20, said: 'I do not think that the recent increase in Bank rate should cause building firms to lose their confidence in the future. There is plenty of work in hand and the long-term outlook suggests that the building programme will continue at a high level.

'There is, however, one aspect of our industry today which should, I consider, give all of us cause for concern. It is the noticeable increase over recent months in what I can only describe as shoddy building. We have all seen evidence of it in brickwork, plasterwork, painting and joinery.'

Most of such work, Mr. Parish continued, was perpetrated by firms and organisations which had no real roots in the building industry and consequently had little or no regard for its prestige and well-being. They were concerned only with 'getting by' with the lowest admissible standards of workmanship, with doing the job in minimum time and with making the maximum profit, regardless of the plight in which the client or building owner might subsequently be left.

'I want to say emphatically,' he went on, 'that member firms of the National Federation of Building Trades Employers are in no circumstances prepared to lower their standards of integrity, competence and performance to counter the kind of competition that firms of not altogether reputable character introduce. We stand by the maxim of a sound job for a fair price and we are not prepared to accept into membership any firm unless it can show conclusively that it observes this principle.

'It is open to every building owner, whether public authority or private householder, to choose his builder. In their own interests I trust that they will take note of my comments and thereby play their part, with the NFBTE, in eliminating the unhealthy rash of substandard work which is currently afflicting the industry.'

Thames Valley Gravel Raising

Minister Rejects Development Appeal

AN APPEAL by Hall and Co., Ltd., against the refusal of Chertsey (Surrey) Urban Council, acting for the planning authorities, to permit 173 acres of Thames-side land at Chertsey to be used for sand and gravel-raising has been rejected by the Minister of Housing and Local Government. A public inquiry held last October, which lasted for four days, was conducted by a Ministry inspector, Mr. C. E. Pinel, with the assistance of Mr. E. Hockley, an engineering inspector.

In communicating the decision to the solicitors for the appellants, the Ministry letter states: 'The inspector . . . did not consider that safeguarding the water supply was the main factor in determining the appeal, but regarded the amenity as of paramount importance. The appeal site was land of outstanding character, particularly as it lay between the built-up parts of Chertsey and the River Thames. It had an almost park-like appearance and gave the impression of open and unspoilt countryside. It was close to residential development and if worked for gravel, residents in the immediate locality would suffer considerable nuisance from lorry traffic.

'The general conditions of working would impair the amenities of the neighbourhood. Moreover, the proposed reduction of a farm of 160 acres to a holding of 50 or 60 acres was not warranted.

'The inspector accepted the evidence that the present output of sand and gravel in the West London area was substantially greater than the demand estimated by the Advisory Committee on Sand and Gravel. He noted the view that the recent rising trend would continue and that there was no stockpiling. Nevertheless, he did not accept the argument that the appeal site must come under production in 1964 in order to meet a demand which could not be met from available sources, or that it must be the natural replacement for the Bedfont pit.

'If the site were not available the inspector thought that adjustments could be made in the programming of your clients' pits and reserve areas to permit an overall life of approximately 10 years. In the inspector's opinion the amenity considerations were over-riding that this land should not be used for the excavation of sand and gravel and should remain in agricultural use in view of its scenic value as part of the picturesque Laleham Reach. He recommended that the appeal should be dismissed.'

The Minister agreed with the recommendations and dismissed the appeal.

'Heating Your Home'

Design Centre Exhibition

IN SEPTEMBER the Design Centre is mounting an exhibition of methods of heating the home. The first section shows complete heating, which is defined as the warming of the whole house from one source; the second deals with partial heating—the warming of some rooms from a central source and others individually; the third displays appliances for local heating, defined as the warming of rooms by individual heaters in each room. In all 56 heaters will be shown for the main types of fuel—electricity, gas, oil and solid fuel. Linking displays are being arranged by retailers all over the country. For a fee of 12s. 6d. the Council of Industrial design supplies packaged information which includes four alternative layouts. Retailers who wish to take part should apply to Miss Jean Stewart, Council of Industrial Design, 28, Haymarket SW1.

Builders' Light Goods Vehicles

Compulsory Testing of Ten-Year-Old Models

BUILDERS using light trucks and runabouts that are ten years old or more will be affected by the new Ministry of Transport testing scheme, which has now been announced to start on September 12. From a date to be announced by the Minister—possibly January 1 next—it will be unlawful to use such a vehicle on the road without a valid test certificate. The certificate will also be required before an excise licence can be renewed. Meanwhile, light goods vehicles of any age may be submitted for test on a voluntary basis.

The plan applies to goods vehicles up to 30 cwt. unladen weight—that is, those taxed at an annual rate of £20 or less. Larger vehicles are outside the present scheme, although the law already allows the police or authorised examiners to stop and test any goods vehicle for mechanical faults.

The new tests will be chiefly concerned with braking, lights and steering, which must in general conform to the Construction and Use Regulations, 1955. Testing stations, approved by the Ministry of Transport, are being set up in most towns, and will display a sign consisting of three white triangles on a blue ground, and the words 'Vehicle Testing Station approved by the Ministry of Transport.'

Certificates will be valid for one year, and the fee for the test will be 14s., plus one shilling if a certificate is given. After rectification of faults a vehicle may be re-tested within 14 days for 8s. Appeals may be lodged if it is considered that certificates have been justifiably refused.

Official Notification

Japanese Imports and Exports

NEW TRADE ARRANGEMENTS between the United Kingdom and Japan for the period ending March 31, 1961, were signed on July 15. These arrangements provide for import quotas and other trade facilities. Included in the list of goods to be freed from control when imported from Japan are asbestos manufactures, lighting appliances and fittings, worked granite and marble, and tiles. Among the export goods for which increased quotas are provided are machine tools and plate and sheet glass. This information is given in the BoT's Notice to Importers, No. 946.

Town Planning Chairman

THE CHAIRMAN of City of London Corporation's Improvement and Town Planning Committee is Mr. Benjamin G. Arthur, and not as stated in our report 'Building in the City,' which appeared in our last issue.

MoW List of Contractors

Revised Procedure to be Adopted

FOLLOWING AN INVESTIGATION by Mr. Harmar Nicholls, Parliamentary Secretary, the Ministry of Works (as reported in 'The Builder' last week) is to revise its procedure for listing possible contractors for its constructional work to ensure that every building and civil engineering contractor in the country has a fair chance of being considered. All firms of suitable standing are to be told how they may get on to the Ministry's Approved List from which firms are selected for invitation to tender. The Ministry is also going to make sure that information about firms already on the list is up to date.

The new scheme was explained to building trade Press representatives on July 19 by Mr. Harmar Nicholls. The present approved list contains the names of some 17,500 firms, of which some 5,000 are general contractors and the remainder specialists. It has always been open to any firm which considers it has the capacity to undertake work for the Ministry to apply to be put on the list. Before a firm is entered on the list the Ministry visits its premises, examines the work it has done and takes up references. The list had its origin in pre-war days, but during the war it was extended and kept up to date by information obtained from the Works and Buildings Priorities Committee, which kept records of major contractors and their capacity. This Committee was abolished in 1946, however, and since then the Ministry has relied upon the initiative of contractors for application to be included in the list and to keep the Ministry informed of changed circumstances.

Applications in September

To explain its present intentions, the Ministry will be sending a note to all contractors in the industry next September. It will be enclosed with the annual return which the Department collects from every firm on details of employment. It will be made clear in the note that the Ministry is not anxious to encourage the very small firms (those not employing more than five men) to apply, as the number of jobs they could cover is very limited. Neither will the invitation be extended to specialist sub-contractors at this stage.

Firms not yet on the list will be invited to write for an application form, which will have to be completed and supported by a certificate signed by a qualified architect, surveyor or engineer to the effect that the applicants are of good standing and capable of carrying out jobs of the size stated. Such applications which are judged satisfactory will be placed initially on a provisional list and considered with firms on the approved list when the Ministry draws up lists of firms to be invited to tender. Before being invited the references of such a firm will be taken up and its premises and capabilities inspected. If it then comes up to approved list standards it will be transferred to that list.

It was pointed out that on January 1, last, the Ministry had in force only 871 new works contracts and 618 maintenance contracts, so that every firm on the list cannot expect frequent invitations.

To ensure that the present approved list is entirely up to date, the Ministry will invite those firms on it who have not been in recent touch with the Department to report any changes in their organisation and capabilities. The Ministry particularly wants to hear of firms which can now carry out larger jobs than when they were first entered on the list.

Some Points Amplified

ANSWERING QUESTIONS at the Press conference, MR. HARMAR NICHOLLS said that the new scheme should not be taken as indicating that the Ministry would be releasing more work; the contrary, if anything, was more likely. But the scheme was an attempt to give every reputable contractor a chance to tender. The lists on which the Ministry worked would of course be largely augmented, and the method of selecting the number of builders to tender for any one job would, in first instance, be in the hands of the regional officer, who would submit approximately three times the optimum number for the size of the contract to the architect in charge of the job who would make the final selection.

Asked what would be the position of the national contractor who often tendered far from home, Mr. Nicholls said that such contractors would have to depend largely on their own initiative and get in touch with the regional officer when they wished to be considered for inclusion on the tendering list.

Mr. Nicholls issued a warning that no firm should think that investigation of its capability and resources necessarily indicated that an invitation to tender would follow or, indeed, that the Ministry was contemplating releasing more work in that area.

The Week in Parliament

From Our Own Correspondent

The Summer Recess

THE HOUSE OF LORDS adjourned yesterday and the House of Commons adjourns today (July 29) for the long summer recess. Proceedings in the Lords concluded with a Royal Commission at which the Royal Assent was given to a number of Bills which both Houses have been considering over the past months.

Implementing RFAC's Recommendations

MR. HAROLD MACMILLAN, the Prime Minister, firmly rejected a request by Mr. Woodrow Wyatt on July 21 that a Minister should be appointed with the responsibility of implementing the Royal Fine Art Commission's recommendations. 'Such an action,' said the Prime Minister. 'would be entirely inconsistent with the commission's status as an advisory body.'

Asking the Prime Minister to look into this 'and check the careless vandalism that is going on under his Government,' MR. WYATT said the commission had recommended to the Ministry of Housing and Local Government that Euston Station should not be pulled down and the Doric Arch not destroyed. It had been totally ignored.

MR. MACMILLAN said that on July 7 the Parliamentary Secretary stated he had received a letter from the RFA Commission on this subject and he was studying it. That was still the position.

MR. GAITSKELL, the Leader of the Opposition, pointed out that there was considerable doubt whether the Commission had the resources to enable it to fulfil its extremely important functions adequately and MR. MACMILLAN replied: 'This is an advisory body which advises the Government departments and local authorities. I am not aware it lacks resources, if by that is meant financial resources. A large number of people give voluntary help to it—architects and artists of all kinds. But if it requires some additional staff to do its work I will be glad to look into it.'

MR. KENNETH ROBINSON said the Minister of Works had stated that the Doric Arch at Euston was neither an ancient monument nor an historic house. In view of that, would the Prime Minister see whether some special effort could be made to save this unique monument?

MR. MACMILLAN said it was a difficult problem. To re-erect it was very expensive. It would raise the question whether it was wise expenditure, or whether this was the best solution.

Single Contract for University Hospital of Wales

THE MINISTER OF HEALTH has agreed in principle that the new University Hospital of Wales may be built under one contract instead of in stages as was first envisaged, provided that this does not delay the building. This was announced by MISS PITT, Parliamentary Secretary, Ministry of Health, in a debate on July 19 on the hospital service in Wales.

Miss Pitt said that the major building programme now in hand would see the provision in the next few years of modern, fully equipped acute hospitals in each major population centre in Wales. Those areas for which plans had yet to be announced were North-East Wales and the northern part of Monmouthshire. The increasing capital allocation for hospital building in Wales had not only made it possible to start many more schemes, large and small, but also to enable a number of the major schemes to be speeded up. The architectural competition for the design of the new University Hospital of

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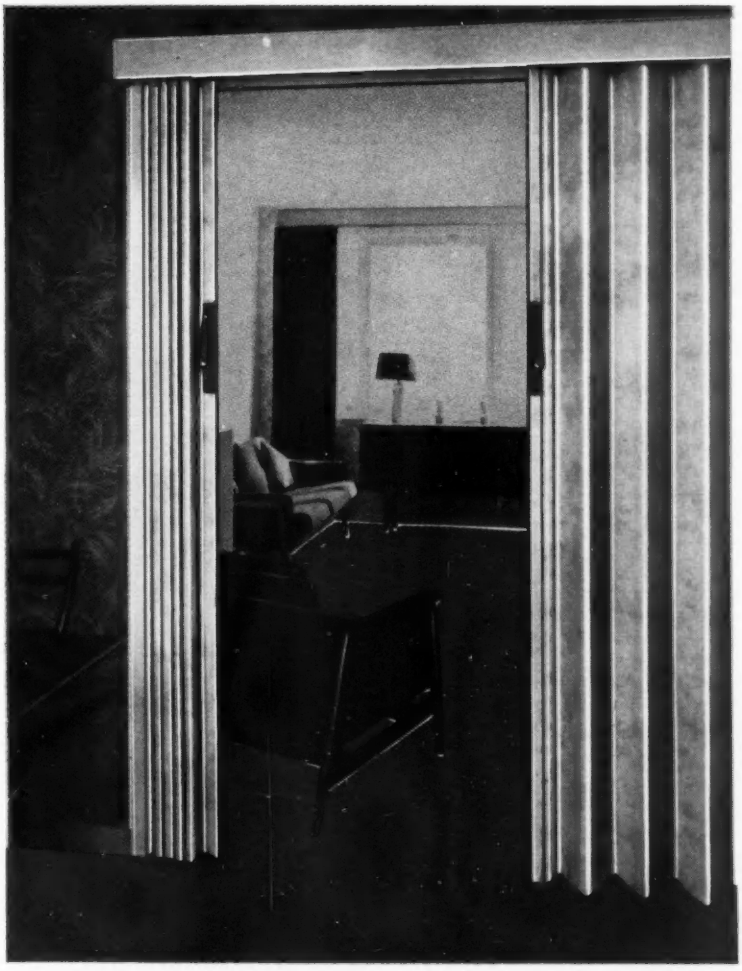

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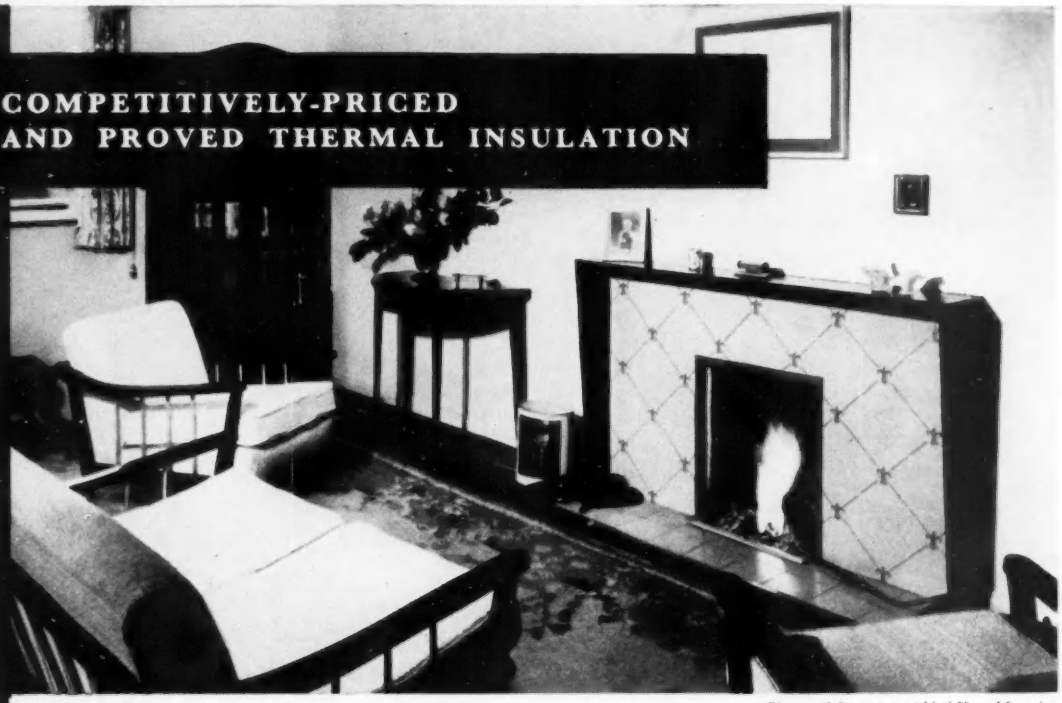

Photograph by courtesy of Ideal Home Magazine.

At "New Britwell", a house at Maidenhead. *Architect:* Michael H. H. Bayley, A.R.I.B.A.

CUT THIS OUT AND KEEP FOR REFERENCE

PRACTICAL CONSTRUCTION

ROOF
Tiles on felt
2-3 inches slag wool.

CEILINGS
Plasterboard and skim coat.

EXTERNAL WALLS
Ground floor: 4½-in. brickwork, 2-in. cavity, 4-in. Thermalite, two-coat plaster.
First floor: Tyrolean rendering, 3-in. Thermalite, 2-in. cavity, 4-in. Thermalite, two-coat plaster.

PRACTICAL CONSIDERATION

The owner writes regarding the efficiency of the Thermal insulation.

'The only further comment that I can add after nearly three years' occupation is that the heating system was unnecessarily large, the bedroom radiators only being used occasionally and it is only during very cold spells that it has to be stoked more than every other day."

PRACTICAL CONFIRMATION

The thermal conductivity (k) of cellular concrete of 50 lbs. cu. ft. density according to the I.H.V.E. guide 1955 conditioned at 64° F/65%R.H. = 1.4 B.T.U.'s etc. This corresponds to the normal conditions in the average heated home during the winter months where a Thermalite inner leaf will have an equilibrium moisture content of approximately 4%

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Wales had now been decided and a particular feature of the design was the complete integration of the teaching departments and the hospital units.

During the debate MR. LEO ABSE said the design of the new University Hospital had attracted attention from every young architect in Wales who had been horrified by the plans which had been produced. He was not surprised. The Principality had already suffered from some of the effects of architectural establishment in Wales. There was the monstrous beehive desecrating the civic centre of Cardiff which housed the Welsh College of Technology. When the most important assessor of the committee was responsible for that desecration, he (Mr. Abse) was not surprised at the result which had come about. The hospital was just what one could expect from this miscegenation; out of the architectural-medical establishment of Wales an architectural abortion had been produced.

More important than the aesthetic aspect of the matter, there was grave disquiet that this school was becoming a glorified cottage hospital. Anyone examining objectively the present plans of the hospital could not but come to the conclusion that there had been a battle for beds but there had been little battle to ensure that they built a hospital which would be worthy of the 1970s instead of the outmoded medical traditions of the 1950s.

MR. HENRY BROOKE, who is Minister for Welsh Affairs, said that as Minister of Housing and Local Government he found that people's architectural tastes differed. He doubted whether any selected design for this hospital would have given complete satisfaction.

Other Business

Pipeline Inquiry

The Government have begun an examination of the procedures to be followed in future pipeline developments in the United Kingdom, said the Minister of Power, MR. RICHARD WOOD, on June 28, when the Esso Petroleum Bill was read a second time. He undertook to make a further statement to the House when the examination was complete. The Bill contains proposals for the construction of pipelines from Fawley to London Airport and to Severnside.

Obfuscation at Westminster

MR. H. CLARK asked the Minister of Works on June 28 what would be the cost of preparing the soil and resowing the grass in the Cloister Court of the Palace of Westminster.

LORD JOHN HOPE: 'About £80. But this courtyard has been returfed a number of times in the last few years: it gets no sunlight and the grass will not grow. I therefore propose, with the agreement of the Palace authorities, to replace grass by paving. The work is due to be carried out in the long recess.'

Heliports in London

MR. T. H. H. SKEET asked the Minister of Aviation on June 28 what consideration he had given to the establishment of a commercial heliport in London.

MR. SANDYS wrote: 'I expect shortly to have the report of a technical committee set up by the Minister of Transport and Civil Aviation in July, 1959. Its task is to recommend possible locations for heliports in London.'

Dwellings for Old People

LORD BALNIEL asked the Minister of Housing and Local Government what proportion of the houses, flats and bungalows built by each of the new town development corporations had been allocated to old people; and what was the proportion of the houses, flats and bungalows under construction in each of the new towns which was due to be allocated to old people.

MR. H. BROOKE wrote in reply on June 21: 'The information in the following table relates only to development corporation dwellings; it does not include the many old peoples' dwellings provided by local authorities. In most towns the percentage of existing dwellings suitable for old people is higher than that given in column (1); some dwellings are let for the time being to younger people to meet the urgent needs of industry in the new towns. The figures in column (2) refer to dwellings suitable for old people. The number allocated initially to old people will depend on the demand for accommodation when the dwellings become available.

	(1) Percentage of dwellings already built and *allocated* to old people	(2) Percentage of dwellings under construction *suitable* for old people
Aycliffe ...	5.7	9.4
Basildon ...	4.1	6.0
Bracknell ...	3.0	6.0
Corby	0.35	3.9
Crawley ...	2.1	3.6
Cwmbran ...	2.9	9.0
Harlow	3.6	15.6
Hatfield ...	1.8	6.3
Hemel Hempstead	4.0	18.0
Peterlee ...	4.3	16.1
Stevenage ...	2.8	4.2
Welwyn Garden City	1.7	10.9

Parking Space Standards

MR. ORAM asked the Minister of Housing and Local Government on June 28 whether he was aware that local planning authorities were requiring the provision of parking space for cars within the curtilage of commercial buildings when the application was only for a change of user from a warehouse to office accommodation; if he would state his policy in this respect; and what action he proposed to take in the matter.

SIR KEITH JOSEPH, Parliamentary Secretary, wrote: 'The Minister does not know whether local planning authorities in general require parking space to be provided within the curtilage in these circumstances. But provision of parking space, there or elsewhere, should be related to the new use, whether it is in a new building or an old one; and if the Minister decides to issue guidance to local planning authorities this point will be borne in mind.'

Sir K. Joseph stated also: 'The Minister thinks local planning authorities should ensure the provision of parking space for commercial buildings either within the curtilage or elsewhere; he has not issued guidance on standards of provision, but he is considering whether to do so.'

MR. ROBERT EDWARDS asked if the Minister was aware of the difficulties created for commercial undertakings particularly shops and showrooms, arising out of the lack of uniform standards of parking space requirements for all new developments because of the differing standards in the various county council areas; and if he would investigate this matter, with a view to establishing overall uniform standards for shopping and commercial centres.

SIR K. JOSEPH wrote: 'The Minister is not aware of difficulties arising from this cause, but he is considering whether to issue guidance to local planning authorities on parking space standards.'

Siting of Nuclear Power Stations

LORD MOTTISTONE asked the Government in the House of Lords on June 29 if in siting nuclear power stations they took into account latest technical developments and whether these developments would, while reducing capital cost, make it possible to relax the present siting restrictions so that reactors could be erected in built-up areas.

Replying, EARL WALDEGRAVE said: 'Policy in regard to the siting of nuclear power stations is kept under constant review in the light of technical developments but it is too soon to say whether the development of the advanced gas-cooled reactor will justify a material change in siting policy.'

LORD MOTTISTONE asked if in view of these changed circumstances concerning cooling methods, the Government would discourage the building of one such station, or two or three as was now hinted, at so beautiful and unspoiled a spot as the mouth of the Newtown River in the centre of the southern shore of the Solent. EARL WALDEGRAVE said that without notice of that question he could do no more than say that they took notice of any point raised but siting policy in general must continue to follow existing policy.

Redevelopment of St. Marylebone Station

SIR W. WAKEFIELD asked the Prime Minister on July 5 if he would ensure that the Departments of Transport, Aviation, Agriculture, Fisheries and Food, and the Home Office were informed by the Minister of Housing and Local Government of the proposals for the redevelopment of the 44 acres comprising St. Marylebone Station and goods yard at an early stage, in view of the need for the right kind of redevelopment of this important area of Central London.

MR. HAROLD MACMILLAN wrote: 'All necessary consultations will take place when the proposals are submitted for planning permission; but I understand that this has not yet been done.'

The Parliamentary Secretary, Ministry of Housing and Local Government, added on July 18, 'I understand that an outline

application for permission to develop St. Marylebone station and goods yard was made to the LCC on July 12. No doubt the county council will now undertake the necessary consultations.'

Planning Grant Regulations, Scotland

MR. J. S. MACLAY, Secretary of State for Scotland, in reply to a question by Dr. Mabon, said on July 5: 'I am sending this week to the local authority associations, as a basis for consultations with them, proposals for the revision of the grant regulations under the Town and Country Planning (Scotland) Acts in the light of the provisions of the 1958 Act.'

Dundee Technical College

MR. GEORGE THOMSON asked the Secretary of State for Scotland on July 13 for details of the extension proposed for Dundee Technical College.

MR. J. S. MACLAY wrote: 'Detailed proposals for accommodation are at present being examined with the Governors and should be approved soon. Generally, the extension is likely to double the existing floor area of the college and to allow expansion of most of the teaching departments and substantial improvements in communal accommodation.'

Improvement Grants

MR. W. G. CLARK asked the Minister of Housing and Local Government on July 14 what were the annual numbers of grants made under the Improvement Grants Scheme and the Standard Grants Scheme for the years 1957, 1958 and 1959; and if he had an estimate available for 1960.

MR. BROOKE wrote: 'The answer to the first part of the question, in terms of dwellings in applications approved for grant, is given in the following table:

DISCRETIONARY GRANTS:

	Total	*Local Authorities and Housing Associations*	*Private Persons*
1957	35,951	3,099	32,852
1958	33,997	2,638	31,359
1959	45,935	5,869	40,066

STANDARD GRANTS—introduced June 14, 1959

	Total	*Local Authorities and Housing Associations*	*Private Persons*
June-Dec., 1959	33,061	11,136	21,925

TOTAL: ALL GRANTS FOR 1959: 78,996

'The rate at which applications for grants have been approved in the first five months of this year has continued to show an increase. If this is maintained, the total number of grants for 1960 is likely to be in the neighbourhood of 120,000, made up of about 45,000 discretionary grants and 75,000 standard grants.'

House Building in Crawley

MR. GOUGH asked the Minister of Housing and Local Government on July 19 if he was aware that the rate of house building in Crawley had fallen behind the requirements of industry in that town, and what steps were being taken to remedy this.

MR. BROOKE wrote: 'In Crawley, as in some other places, demands for labour have been heavy recently. At the same time, since the town is nearing completion, the rate of house-building there must slow down. The number of school-leavers is however increasing every year, and it is most important that employers should make full use of their services. I am about to authorise the Development Corporation to build another 270 houses, in addition to the 400 already being built. The UDC will also be building about 100 houses next year, and the Corporation will shortly be discussing their further programme with them. Private enterprise builders have land sufficient for about 400 houses. I believe that all reasonable requirements over the next three years will thus be met, but the programme will be kept under close review.'

Advertising on Business Premises

MR. ELLIOTT asked the Minister of Housing and Local Government on July 19 in view of the substantial increase in the amount of advertising displayed on shop premises, whether he was satisfied that the terms of the Code of Standards for Advertising on Business Premises, to which he contributed the foreword, were being observed.

SIR KEITH JOSEPH, Parliamentary Secretary, wrote: 'It is bound to take some time before it is possible to judge the effect of the Code. It is not the Minister's responsibility to secure that it is observed: but he certainly deplores action which is inconsistent with it and with the efforts which are being made by responsible trade organisations to deal with clutter on business premises.'

Slum Clearance Statistics

MR. SPRIGGS asked the Minister of Housing and Local Government on July 19 what was the latest estimate he could give of the houses needed by local authorities to deal with slum clearance and general needs.

MR. BROOKE wrote: 'About 650,000 houses remain to be cleared under the present slum clearance programmes of local authorities. The number of dwellings required to rehouse the occupants will probably be rather larger. I can make no estimate of the number of houses which local authorities may find it necessary to provide for general needs. But a substantial part of those needs can be met progressively from vacancies arising among the 3¼m. houses which local authorities already own.'

No Grant for Doric Arch

Replying to a question by SIR FRANK MARKHAM on July 5, SIR KEITH JOSEPH, Parliamentary Secretary, wrote: 'The Minister has just heard from the LCC that the BTC have informed them that the Commission would raise no objection to the re-erection of the Arch if a suitable site can be agreed, but they are not willing to pay for it. The Council inquired whether there is a possibility of a contribution from Government sources, but the Minister has no power to make a contribution for this purpose. I am ascertaining whether there are any other possibilities.'

MR. KENNETH ROBINSON asked the Minister of Works on July 19 whether there had been any application to the Historic Buildings Council for a grant in connection with the proposal to dismantle and re-erect the Doric Arch at Euston Station; and with what result.

LORD JOHN HOPE: 'No. On July 1, the LCC asked whether my Ministry had any powers to make a grant towards the cost of dismantling and re-erecting the Doric Arch at Euston. After taking legal advice, my Department informed the LCC that neither Section 4(1) of the Historic Buildings and Ancient Monuments Act, 1953, nor Section 3(3) of the Ancient Monuments Act, 1931, empowered me to make a grant towards the cost of dismantling and re-erecting the Arch.'

The Abingdon Site, Westminster

Asked for details of his proposals for the use of the Abingdon site near the Palace of Westminster, LORD JOHN HOPE, Minister of Works, in a written reply on July 19, recalled his proposal to use this site as an open space, adding that he was considering in consultation with the Minister of Transport the possibility of providing an underground garage below it. He would make details of his proposal made known as soon as possible.

No Delay on MoW Projects

When an assurance was sought, on July 19, that the Government announcement on capital expenditure would not delay or diminish the projected work on the South Bank to rehouse the Patent Office and also the National Scientific Library, LORD JOHN HOPE, Minister of Works, said the earliest date by which a building contract for this scheme could be let was 1963 so it was not affected by the recent announcement regarding the next financial year. The planning and design of the building were proceeding.

Points From Replies

'Part II of the Arts Council's report on Housing the Arts, dealing with the provinces, may be expected by the late autumn.' (*Chancellor of the Exchequer*, July 18.)

'A large new power station is now being built at Blyth, and the Generating Board will no doubt bear in mind the availability of coal and labour in the north-east when considering sites for future stations.' (*Minister of Power*, July 4.)

'It must be expected that helicopter services will, before many years have passed, become one of the normal methods of travel between cities. I have, therefore, advised local authorities to consider earmarking well in advance suitable sites for heliports.' (*Minister of Aviation*, July 4.)

'Expenditure on the purchase of land and buildings in England and Wales for hospital purposes was: year ending March 31, 1951—£2,494,000; year ending March 31, 1954—£1,330,000; year ending March 31, 1959—£553,000. I regret that information about the area of land acquired is not readily available.' (*Minister of Health*, July 4.)

'Plenum-floor' System in House Construction

Provision for Warm Air Circulation and Other Services

BY J. A. EDWARDS

THE 'PLENUM-FLOOR' system of construction is a combination of a thin (2 in.) slab of concrete placed on the ground with a system of joists to hold conventional flooring, the joists being supported directly on the slab itself. The system eliminates heavy girders, joists, piers or footers within the floor area. The concrete slab is poured essentially right on grade, but with a space of 5 to 6 in. between the concrete and the finish flooring. This space between forms the heating plenum (warm air distribution). Most of the wiring and utility lines may pass through that space also. This keeps house roof lines low. There is also less need for deep footers to support walls because the weight of house floor and contents rests on the slab itself, not on walls.

The greatest cost savings in a plenum-floor house arise from reduced expense in installing the warm air heating system. A down-flow forced warm air heater is installed by simply setting it over an opening in the floor. With fan operating, air in the plenum is under slight positive pressure so that registers or outlets may be located anywhere simply by cutting holes in the floor. The simplest method is to run finish flooring only up to within about ¾ in. of outside walls, thus providing a warm air outlet or slot around all cold wall areas. Heating of the house, however, is only partially by the warm air forced up through openings. The remainder is panel heating by the warm floor itself.

In making this installation, care must be exercised to see that the joint between sill and wall is well caulked with resilient material, otherwise there will be an escape of warm air, under slight pressure, from the plenum. If desired, an opening can be arranged so that warm air is admitted under the front step or other exposed area from which it is desired to keep ice melted. Floor registers can be located anywhere in the house and can be added at any time.

Floor joists to which finish floor is fastened may be only 2 in. x 3 in. or 2 in. x 4 in. laid flat. Plywood or particle board panels, underlay for linoleum or kitchen or bathroom tiles, are fastened directly to those joists. Finish flooring in other living areas may be any conventional type but a subfloor is not needed. During construction phases, the concrete slab provides a work surface for operatives. The W-trusses, nailed or stapled to the underside of joists, permit free circulation of air in all directions under the floor. In cold climates some insulation is needed along outside walls (in plenum) and around the perimeter of the slab to reduce heat losses.

A valuable characteristic of the special W-truss employed is its ability to adjust itself automatically to slight irregularities in the level of the concrete surface. Only the ends of the trusses are attached to joists, the centre contact point being left so that it floats free. Bottom points rest on a layer of building paper and are not attached to the concrete slab. The centre point, therefore, can swing one way or the other to adjust or compensate for differences as great as ¼ in. in the level of the concrete. Legs or bearing points rest firmly on the slab so there is no rattle or movement.

It is a simple and rapid operation to attach the trusses to the joists before the latter are put in place with a power stapler or nailer. Some care is necessary to make certain that trusses are all adjusted so that height is uniform; one method is to keep the end-to-end length of truss constant. This results in uniform height.

The trusses, though light in weight, have surprising strength. Tests have shown that when the truss is made of .040 in. soft aluminium, it takes over 1,500 lb. weight to cause deformation; and each truss appears fully safe to 1,000 lb. Aluminium of harder 'temper' will support much more weight. Since each truss supports only about 2½ sq. ft. of floor area, the usual rate of floor loading can be done with a safety factor of 500 to 1,000 per cent.

Construction

For good construction, the finish floor of a house with the plenum floor system requires to be 8 to 12 in. above grade level; drainage should be away from the outside wall, and soil under the slab should be reasonably firm. Reinforcement of concrete is then not necessary.

After constructing the wall, the inside area should be filled with sand or crushed rock up to a point 8 in. below finish floor level. It should be well compacted to avoid settling and then soaked with water to compact still farther. The 2 in. slab can be placed directly onto this compact fill or a layer of polythylene placed between. Depending on the climate of the area, a 1 or 2 in. layer of vertical perimeter insulation may be placed between the edge of the slab and the outside masonry wall. A 2×24 in. batt of glass wool insulation, laid on the slab around the perimeter, is also desirable.

The concrete slab should be made reasonably level but does not need to be floated or trowelled. In cold climates plumbing connections come up through the slab.

The type of finish flooring to be used makes a difference in spacing and arrangement of the joists. For large panels of plywood in kitchens or bathrooms, joist spacing may be either 16 or 24 in. If ordinary ¾ in. or 25/32 in. tongue-and-groove finish flooring is used, joists should be 16 in. o.c. This leaves only about 12 in. of unsupported span between joists.

When using panels of prefinished flooring, joist spacing depends on the size of panels. With the 24 in. x 28 in. panels used in the experimental house, a joist spacing of 24 in. was satisfactory but a cross piece of blocking, with one truss attached, was placed at each cross joint of flooring panels. This required the same amount of materials as for 16 in. spacings.

The inventor of the plenum-floor system is Prof. G. J. Stout, of Pennsylvania State University. Arrangements are now being made with a number of companies in the USA to manufacture the metal truss.

Laying a typical floor. On the right is plywood sub-flooring where linoleum or other surfacing material is to be used for the kitchen area; on the left is the oak floor for the living area. The 'plenum' under the floor is clearly visible

Working Hours and Wage Gradings

Amendments to Working Rule Agreement

CHANGES IN WORKING HOURS, the grading of districts, and the London zoning, details of which have been previously published by the National Joint Council, take effect on October 3 next.

1. *Working Hours:* The normal working hours throughout England and Wales will uniformly be 44 per week. Full details of the arrangement of working hours both for a five-and-a-half-day week and for a five-day week, and for the Winter Period were published on May 4, 1960 (see 'The Builder' of June 3).

2. *Grading of Districts:* When publishing details of regradings for 1959 (in August, 1959) notice was given of the Council's intention in October, 1960, of regrading all then remaining Grade A1 districts to Grade A. The Council has now taken its formal decision on this matter. The effect of that decision is that on and from Monday October 3, 1960, with the exception of the London Region (as defined) and the Liverpool District, the rate of wages applying throughout England and Wales will be the Grade A current standard rate for craftsmen with the corresponding wage rates for Labourers, Apprentices, and Young Male Labourers.

3. *London Region—Zoning:* In accordance with the Council's decision of January 24, 1959, published on February 20, 1959, as from Monday, October 3, 1960, the existing Inner and Outer Zones of the London Region (as defined) will be merged, and the rates of wages applying throughout the whole region will be the present London Inner Zone rates, i.e.:

Craftsmen 5s. 1d.; *Labourers* 4s. 5½d. with corresponding rates for Apprentices and Young Male Labourers.

Winding Up of Grading Commission

A LONG STANDING FEATURE of the building industry's wage structure came to an end on July with the winding up of the Grading Commission of the National Joint Council, which for 40 years has been responsible for the system of grading the very large number of districts into which the country has been divided for wage rate purposes. The Council has previously announced its intention of raising all districts below Grade A to Grade A next October.

At the final meeting of the Commission, the chairman of the National Joint Council, Mr. L. A. Walden, CBE, presented a silver salver to Mr. G. W. C. Buchanan, CBE, who has been chairman of the Grading Commission since 1939. The presentation was made in recognition of the outstanding contribution made by Mr. Buchanan to the work of the National Joint Council, and in particular of the help which the Grading Commission had given during the war years in maintaining the stability of the industrial agreement.

Working Rule Agreement

ON JULY 23, 1959, the National Joint Council received a report from the 'Ad Hoc' Committee which it had appointed to examine the matter of Working Hours in the Building Industry. It then decided to adopt certain general principles which the 'Ad Hoc' Committee had recommended, and which were as follows:—

'(a) That as from the beginning of the first pay week in October, 1960, the normal working hours throughout England and Wales shall be 44 per week, but subject to the present agreed provisions governing working hours during the "Winter Period."

(b) In the circumstances and conditions applying in the Industry today, especially where the location of jobs involves operatives in a substantial amount of daily travelling, and/or where overhead costs are such as to make Saturday morning working largely uneconomic, it should be permissible by arrangement for the normal weekly hours to be worked in five days (Monday to Friday) at ordinary plain time rates.'

The National Joint Council has now considered and has adopted the consequential alterations to its National Working Rules which are necessary to give effect to the principles indicated above, and the Procedure Comittee has been directed to publish the said amendments to Rule, *which will become operative on and from Monday, October* 3, 1960.

The detailed alterations to the Rules are:

(A) NATIONAL WORKING RULE 2—WORKING HOURS.

Delete the whole of existing National Working Rule 2 and *substitute:*

1. *Normal Working Hours.*

Subject to the provisions of para. 2 below, the normal working hours shall be 44 per week, arranged as follows:

Mondays to Fridays (inclusive) ...	8 hours per day
Saturdays	4 hours

By arrangement between the employer and the operatives on a site or job or in a shop the normal weekly hours may be worked on that job or in that shop in five days, in which case the daily hours, to be worked at plain time rates, shall be:

Mondays to Thursdays (inclusive)	9 hours per day
Fridays	8 hours

The employer shall give immediate notice in writing of such arrangement to the Local Joint Committee.

2. *Winter Period.*

The 'Winter Period' shall normally be the six weeks before and the six weeks immediately following Christmas, but taking into account difference in hours of daylight and other conditions affecting local working hours, Regional Joint Committees are employered:

(a) to approve for any locality a different 'Winter Period' (not restricted to 12 weeks' duration);

(b) to adjust where necessary to local dinner interval during the two weeks immediately before and the two weeks immediately following the said 'Winter Period.'

The working hours during the 'Winter Period' shall be as follows:

(i) Where artificial light can reasonably be supplied as in para. 1 above.

(ii) Where artificial light cannot reasonably be supplied and subject to the option in (iii) below—44 hours per week, with meal interval of ½ hour.

(iii) Where artificial light cannot reasonably be supplied and where the majority of the operatives on the job so request, the Employer shall be at liberty to arrange the following:

41½ hours per week (with meal interval of 1 hour).

3. *Meal Intervals.*

In all cases there shall be one break for a midday meal at a time to be mutually agreed in each locality. The normal dinner interval shall be 1 hour; provided that:

(a) In the case of paras. 2 (ii) and 2 (iii) above the duration of the break shall be as therein prescribed.

(b) In any other case, where the majority of the operatives and the employer on any job so desire, and upon notification forthwith by the employer, a Local Joint Committee may approve a reduction of the meal interval to not less than ½ hour.

4. *Starting and Finishing Times.*

The actual times of starting and finishing work shall be as determined and published by the Local Joint Committee.

(B) NATIONAL WORKING RULE 2A.

Para. 1 (e).

Amend to read:

'Throughout this Rule the expression "normal working hours" means the hours prescribed under National Working Rule 2. It excludes any overtime hours worked for which premium rates are payable under National Working Rule 4.'

Para. 3.

Line 5 *delete* 'Holidays with Pay,' *substitute* 'Annual Holiday.'

Line 6 before 'Working' *insert* 'National,' *delete* 'of the National Joint Agreement for the Building Industry.'

Line 10 after '41½' *insert* 'or,' *delete* 'or 46½.'

(C) NATIONAL WORKING RULE 4—OVERTIME.

Delete the first three paragraphs as follows:

'Overtime shall be paid at the following rates ..... on Monday morning, double time.'

Substitute: 'Overtime shall be paid for at the following rates:

(i) 5½-*day week.*

Mondays to Fridays.

First two hours—time-and-a-quarter; second two hours — time-and-a-half; afterwards, until starting time next morning—double time.

Saturdays and Sundays.

Time worked between normal finishing time on Saturday and 4 p.m.—time-and-a-half; afterwards until normal starting time on Monday morning—double time.

(ii) 5-*day week.*

Mondays to Fridays.

First hour — time-and-a-quarter; next two hours — time-and-a-half; afterwards, until starting time next morning—double time.

Saturdays and Sundays.

First two hours on Saturday morning —time-and-a-quarter; thereafter, until 4 p.m.—time-and-a-half; from 4 p.m. on Saturday until normal starting time on Monday morning—double time.'

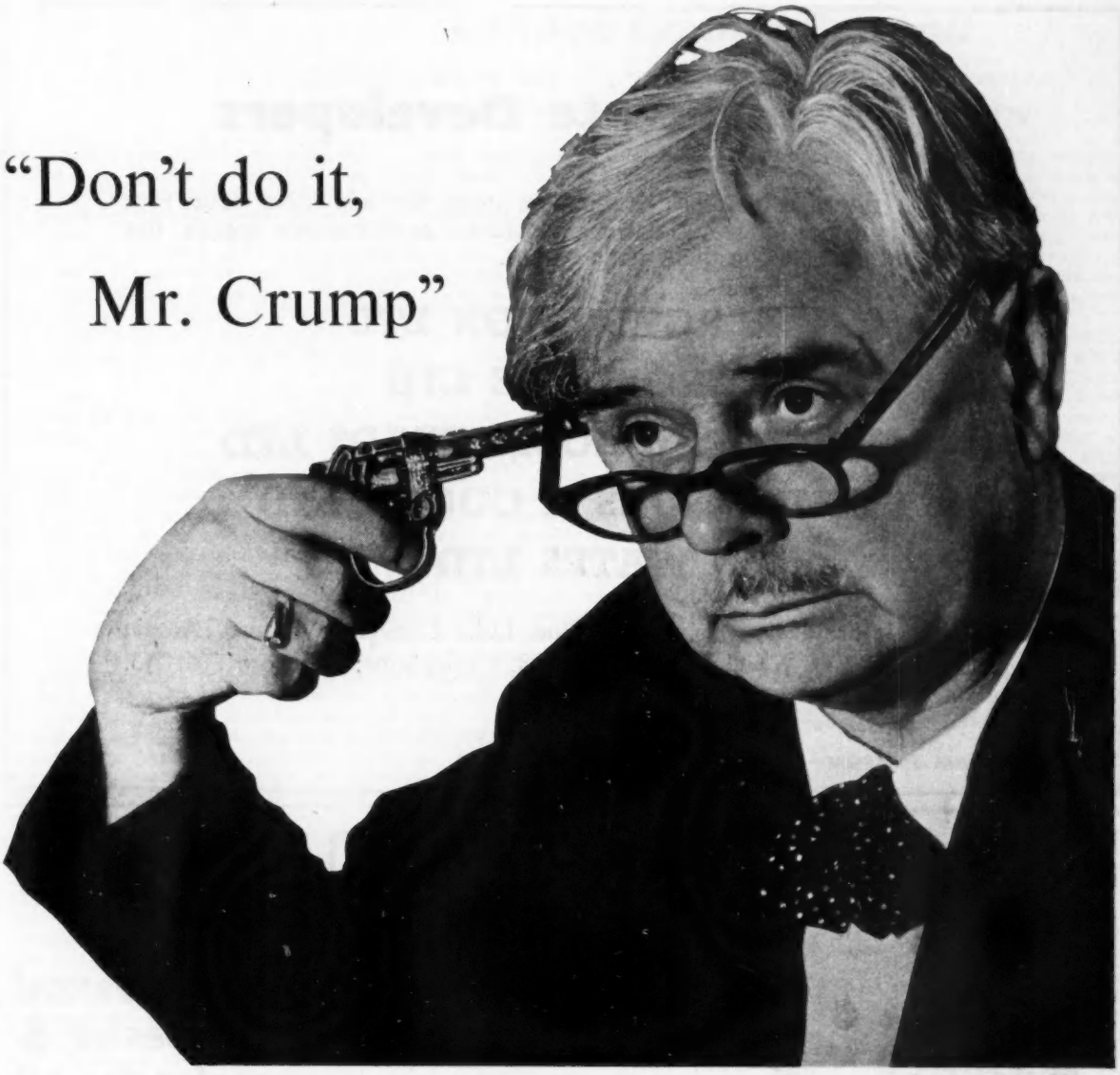
(D) NATIONAL WORKING RULE 1(f)—WATCHMEN.

Amend last para. to read:

'The night shift shall be the period between normal finishing time on the job or in the shop and starting time next morning.

At week-ends a relief watchman shall be employed for daytime watching. Where Saturday morning is worked the relief watchman shall be paid half shift for the period between finishing time and 6 p.m. Where Saturday morning is not worked, and on Sunday, full shift shall be paid on each day for the time between 8 a.m. and 6 p.m. Where it is necessary to work overtime on a Saturday, mutually agreed arrangements shall be made.'

It will be noted that where, under N.W.R. 2(i) a five-day week is worked, Local Joint Committees may need to adjust normal starting and finishing times accordingly.



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London County Council

Loans for House Purchase; Car Parking in London; Housing Operations; Annual Estimates; Rebuilding of City Centres; Blackheath Redevelopment

THE FINANCE COMMITTEE, who have reviewed their practice on loans for the purchase of houses and flats, said on July 19 that many applicants would probably have been unable to proceed with purchase if the limit had not been raised from 90 per cent to 100 per cent of valuation. Loans up to 100 per cent will be continued. It is proposed to increase the maximum for advances for improvements and alterations from 90 to 100 per cent.

Normally the Council do not make advances on leasehold property with an unexpired term of less than 30 years, but in future where an improvement grant has been made in respect of a leasehold property with an unexpired term of less than 30 but not less than 15 years, an advance may also be made towards the cost of the improvements of up to 50 per cent of the value of the property after the works have been carried out.

Car Parking in London

THE GENERAL PURPOSES and Town Planning Committees reported jointly on the first of the discussions held with the Metropolitan Boroughs Standing Joint Committee and the City Corporation to ascertain the conditions necessary to ensure a 'comprehensive plan for a phased provision of multi-storey garages in central London.'

It was intimated that provision of off-street parking would be undertaken by the City and Borough Councils under their existing powers; the City Corporation had already earmarked the sites necessary for all their needs; and liaison had been established to survey the problem in the remainder of the central area. All borough Councils are to be invited to survey the situation in their areas. Their proposals will be incorporated in a draft programme to be examined jointly by the Council and the Standing Joint Committee. Central London will be given priority.

Housing Operations

THE HOUSING COMMITTEE reported that since the war and up to March 31, 1960, sites totalling 8,632 acres had been approved for housing purposes. These sites provided space for 132,000 new dwellings, of which 102,297 were built or under construction on that date. 4,169 dwellings were completed during the last financial year; this was rather less than the total (5,513) for the previous year, but owing to the shortage of suitable sites in the country, a decline in progress was inevitable. 19,805 dwellings had been declared unfit or dealt with by agreements by March 31, 1960, under the post-war slum clearance programme.

Annual Estimates

THE LONDON COUNTY COUNCIL at its meeting on July 19 considered the housing estimates for 1960-61 and a summary of their housing operations since the war.

Capital estimate.—Of the total of £15½m. (compared with £16,350,000 last year), £2¾m. (the same as last year) is for the acquisition of land, and £11¾m. (£12½m. last year) for the development of sites by the erection of dwellings, etc. Provision for over £1m. is included for the Council's agency work at Haverhill, Luton, Huntingdon and Thetford under the Town Development Act; the estimated income of £1,450,000 represents almost wholly repayments under these schemes.

Maintenance estimates.—It is estimated that 202,525 permanent and temporary dwellings will be available for occupation by March 31, 1961. Including other lettings in property acquired for redevelopment, improvement or conversion, and dwellings formerly managed by other LCC committees, the total number managed at the end of the year will be about 207,335. The total of the estimates (£20,962,700) represents an increase of £873,345 over last year, which is partly due to the increased number (1½ per cent) of dwellings to be maintained. Taking into account estimated income from rents (£15m.), Exchequer contributions (£4,400,000), the estimated sum to be borne by the rates in 1960-61 is £3,574,485.

Rebuilding of City Centres

AT THE MEETING of the London County Council on July 19, MR. E. S. HILLMAN put the following questions to the chairman of the Town Planning Committee:

'(i) Has he read an article in the national Press on the report prepared by the Civic Trust prior to a conference to discuss the rebuilding of city centres which states that "If the piecemeal development of our city centres is allowed to continue much longer at the present rate, unique opportunities to replan comprehensively will have been lost"?

'(ii) Has he any comment to make on the reported suggestion of the Civic Trust that local authorities should be empowered to designate "areas of special importance," and further that "One method would be for the local authority to purchase compulsorily all the land within the designated area and either lease or sell sites to private developers subject to their conforming to the scheme"?

'(iii) How far do the plans already announced for the Elephant and Castle comprehensive development area accord with the principles outlined in the first two parts of my question?'

In reply, MR. RICHARD EDMONDS said 'yes' to the first part of the question. On (ii) and (iii) he said: The Council, the City Corporation and the Metropolitan Borough Councils have already done much to redevelop areas of special importance. This Council has necessarily had to give priority to areas which were badly war-damaged and where comprehensive redevelopment was required. But the Council has also done much to achieve such redevelopment where road improvements required large-scale purchase of land. The Elephant and Castle area provides an outstanding example of the way in which road improvements and comprehensive redevelopment of a war-damaged area can be combined.

'The redevelopment of other important centres in the heart of London which were not blitzed presents additional problems, however. Both the Town Planning Institute, in their recent memorandum, and the Civic Trust at their conference last week, have highlighted the problem. In view of the cost of other projects to which the Council gives higher priority and the limits on the size of the Council's purse, the question whether the Council should be empowered to designate areas of special importance and should purchase compulsorily all land within such areas would depend to a large extent on whether any substantial financial assistance would be forthcoming from HM Government.'

*** An extensive report of the Civic Trust's Conference appeared in 'The Builder' of July 22.—ED.

Blackheath Redevelopment

MR. ROBERT VIGARS asked if the Town Planning Committee was giving consideration to the general problem of redevelopment at Blackheath [Greenwich and Lewisham North] and, if so, would he arrange for a report to be brought before the Council in due course?

MR. R. EDMONDS replied: 'The problem of aesthetics arises out of several individual applications for development in this area which the Committee visited on July 18. While decisions on these applications must not be unnecessarily delayed, I will arrange for the general question to be considered again by the Committee who will no doubt decide whether they wish to submit a report.'

MR. R. VIGARS also asked if the Town Planning Committee, at their meeting on July 11, considered an application made on behalf of the Convent of the Assumption for the erection of a four-storey building at 20, 22 and 24 Kensington-square, and if so, (a) were objections raised to the grant of permission for this building by the Council of the Royal Borough of Kensington, The Kensington Society and owners and occupiers of properties in Kensington-square, on the grounds that the building would have a harmful effect on the special character and amenity of adjoining properties in Kensington-square; and (b) what decision was taken by the Committee and was their decision arrived at only by the exercise of a casting vote?

MR. R. EDMONDS said that the answer to the first question was 'Yes.' In regard to (b), the Committee decided to grant conditional permission. The chairman gave a casting vote.

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
¾ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	,,	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	0	6
1 to 6 tons do. site	,,	6	12	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colorcrete in 6-ton lots	,,	8	10	0
Other colours according to colour. In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.				
White Portland Cement	,,	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.

		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	,,	14	3	6
Mild Stocks (Kiln Burnt)	,,	10	5	0
Mild Stocks	,,	10	0	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	,,	6	2	0
Cellular Commons	,,	6	2	0
Keyed do.	,,	6	4	0
Rustics	,,	8	2	0
Cellular Rustics	,,	8	2	0
Single Bullnose Commons	,,	8	4	6
Sandfaced	,,	9	2	0
Tuscans	,,	9	17	0
Saxons	,,	10	5	0
Golden Buffs	,,	10	12	0
Dapple Light Facings	,,	10	19	6
Heather Facings	,,	10	15	0
Best Blue Pressed Staffs (London stations)	,,	30	12	6
do. do. (London sites)	,,	30	14	0
do. Bullnose (London stations)	,,	31	11	6
do. do. (London sites)	,,	31	13	0
Blue Wire Cuts (London stations)	,,	27	5	0
do. do. (London sites)	,,	27	6	6
Midhurst Lime Bricks (London sites)	,,	11	0	6
Uxbridge Whites (London sites)	,,	10	19	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2½ in. Moler Flue Bricks (London sites)	,,	31	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	,,	17	11	6
2½ in. Machine-made Multi Red Facings (London sites)	,,	17	16	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	19	15	0
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	19	15	0
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	13	0
Rubber Bricks for gauged arches (London sites)	,,	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	15	6	6
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

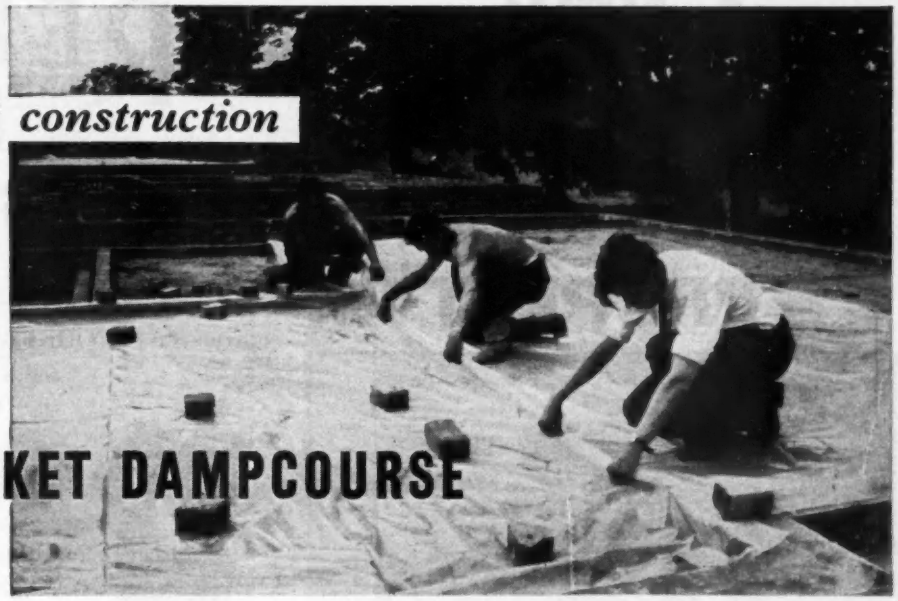
Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

		£	s.	d.
HOLLOW CLAY PARTITION BLOCKS (Keyed)				
Minimum lorry loads				
*2½ in. 140 yds.	per yd. sup.		4	6
BUILDING BLOCKS (Keyed)				
*3 in. (6 cavity) 110 yds.	,,		5	7
*4 in. (6 cavity) 90 yds.	,,		7	0
6 in. (8¾ in. × 5¾ in.) 1,250 blocks	per 1,000	27	13	0
* Half blocks at no extra charge.				
CLINKER CONCRETE				
2 in. 100 yds.	per yd. sup.		3	9
2½ in. 85 yds.	,,		4	4
3 in. 75 yds.	,,		5	3
4 in. 55 yds.	,,		6	5
CRANHAM TERRA COTTA				
2 in.	,,		6	9
2½ in.	,,		7	9
3 in. Load bearing quality	,,		8	9
4 in. do. do.	,,		10	9
MOLER PARTITION BLOCKS				
2 in. 150 yds.	,,		11	3
2½ in. 120 yds.	,,		14	0
3 in. 100 yds.	,,		15	0
4 in. 90 yds.	,,		17	0
LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE				
2 in. 100 yds.	per yd. sup.		5	4
2½ in. 80 yds.	,,		6	5
3 in. 65 yds.	,,		7	5
4 in. 50 yds.	,,		9	4
4½ in. 44 yds.	,,		10	2
6 in. 33 yds.	,,		13	5
THERMALITE-YTONG PARTITION BLOCKS				
2½ in. 144 yds.	,,		7	0
THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS				
3 in. 120 yds.	per yd. sup.		8	5
4 in. 90 yds.	,,		11	0
5 in. 72 yds.	,,		13	9
6 in. 60 yds.	,,		16	6
8½ in. 42 yds.	,,	1	3	8
FLOOR BLOCKS AND FILLER TILES				
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:				
3 in.	per 1,000	34	16	0
4 in.	,,	37	8	0
5 in.	,,	44	17	0
6 in.	,,	51	4	0
7 in.	,,	62	18	0
8 in.	,,	73	11	0
9 in.	,,	81	0	0
10 in.	,,	89	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ⅞ in.	,,	42	15	0
12 in. × 4 in. × ⅞ in.	,,	73	15	0
10 in. × 5 in. × ⅞ in.	,,	73	15	0

In house-raft construction



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—**tough and flexible**—will not easily break or tear when being laid ;

—**very easy to handle**—the film is light in weight and is simply laid over the fill before the concrete is placed ;

—**cheap**—material and labour-costs are very low.

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* Permanently silent operation by electricity or gas
* No motor, no vibration
* Cooling unit guaranteed 5 years

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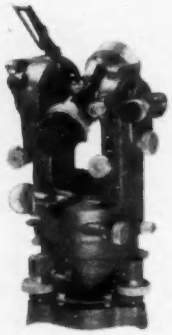

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STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 100 pieces Under 2 tons	Under 100 pieces Under 2 tons
Best Quality ...	−10%	+5%	+12½%
BSS Best Quality...	+10% −10%	+10% +5%	+10% +12½%
Tested Quality ...	+37½% −10%	+37½% +5%	+37½% +12½%
BSS Tested Quality	+47½% −10%	+47½% +5%	+47½% +12½%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	12	4	0
4 in. do. do.	,,	16	7	0
6 in. do. do.	,,	33	13	0
9 in. do. do.	,,	63	12	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	5
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	155	10	0
22 × 12	123	10	0
22 × 11	111	10	0
20 × 12	104	10	0
20 × 10	102	0	0
18 × 10	69	10	0
18 × 9	61	0	0
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

		Ex Wharf	per standard	£	s.	d.
Softwood						
Joinery quality		do.	,,	£115 to £140		
Carcassing quality		do.	,,	£94 — £98		
1 in. Tongued and Grooved Flooring		do.	,,	£110	0	0
Hardwood				£	s.	d.
Mahogany—	African S.E.	do.	per ft. cube	1	10	0
do.	Honduras S.E.	do.	,,	3	5	0
Oak	European S.E.	do.	,,	2	10	0
do.	Japanese S.E.	do.	,,	3	0	0
do.	English Logs sawn ...	do.	,,	2	0	0
Teak	8 in. average S.E. ...	do.	,,	3	17	6
Walnut	African Logs sawn ...	do.	,,	1	2	6

DOORS (in Lots I–II

Delivered London area.		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	,,	1	17	6
3/16 in. do. do.	,,	2	4	6
3/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOISTS, ETC.

		£	s.	d.
Basis Joists— 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in.	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. } 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. } 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. } 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	,,		10	0
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London— R.S. Joists cut and fitted	,,	64	15	0
Compound girders	,,	69	5	0
Stanchions	,,	74	15	0
Compound stanchions	,,	79	5	0
In Roof Work—Trusses and Purlins	,,	89	10	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¾ in. diam.	per ton extra	8	12	6
7/16 in. do.	,,	6	12	6
⅜ in. do.	,,	4	12	6
⅓ in. do.	,,	3	2	6
¼ in. do.	,,	1	10	0
⅛ in. and ⅜ in. diam.	,,		15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−39½%	−41 %	Light −26½%	Malleable List
Medium	−35½%	−37 %	Heavy −22½%	−18½% + 40%
Heavy	−27½%	−29½%		
Black—				
Light	−50%	−51½%	Light −32½%	Malleable List
Medium	−46%	−47½%	Heavy −28½%	−18½%
Heavy	−38½%	−40%		

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/–
3½ in.	4/4½	3/11	1/–
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipe

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 25% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts.:	cwt.	qt.	lb.	Per yd.	Bends	Branches
4 in.	1	1	17	35/3	23/9	42/–
6 in.	2	0	1	51/7	63/9	101/–

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths ...	per yd.	4/7	4/10½	5/11	7/10
Shoes ...	each	3/–	3/3	3/10	5/2
Single Branches ...	,,	4/8	5/6	6/7	9/2
Bends, square or obtuse ...	,,	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj....	,,	3/7	4/8	5/2	7/3
do. 6 in do....	,,	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	,,	1/1	1/2	1/3	1/5
Angles	,,	3/7	4/1	5/–	5/10
Nozzles	,,	3/6	4/–	4/9	5/–
Union Clips	,,	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/–	3/3	3/7	5/2
Stop ends	,,	1/–	1/1	1/2	1/3	1/5
Angles	,,	2/10	3/3	3/7	3/10	5/2
Nozzles	,,	2/6	3/–	3/3	3/7	5/2
Union Clips	,,	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality	52 17 6
Mild Steel Bars	47 8 6
Mild Steel Hoops	49 0 0

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge	62 7 6
24 gauge	64 17 6
26 gauge	67 17 6
Galvanised Corrugated Sheets, 6-ft. to 9-ft. —	
20 gauge	70 18 0
24 gauge	74 8 0
26 gauge	79 13 0
Galvanised Flat Sheets C.R. and C.A. :	
20 gauge	72 8 0
24 gauge	75 18 0
26 gauge	81 3 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)... ...	per lb.	3 0
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	,,	2 11
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	,,	2 11
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	,,	2 10½
Coiled strip for flashing, high purity, 22 SWG (12 in wide)	,,	3 1½
Corrugated sheet BS 1470 NS3 Circular ... Profile 8 ft. × 32 in. × 20 SWG	per sheet	1 13 6
Corrugated sheet BS 1470 NS3 Industrial... Profile 8 ft. × 31¼ in. × 20 SWG	,,	1 19 3
Corrugated sheet BS 1470 NS3 Mansard... Profile 8 ft. × 31¼ in. × 20 SWG	,,	1 12 7
Extruded section BS 1476 E1C simple moulding	per lb.	2 10
Extruded section BS 1476 E1C 1 in. diam. round	,,	2 7½
Extruded section BS 1476 HE10WP simple angle	,,	3 1½
Extruded section BS 1476 HE10WP 1 in. diam. round	,,	3 0½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	,,	6 6½
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	,,	4 0½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron...	87/–	128/–	—	—	—	—
Toilet bib cocks for iron ...	109/–	158/5	—	—	—	—
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves...	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4in.
Caps and Screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/–	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :			s. d.
Plumbers' ...	1 cwt. lots	320/–	14 lb. lots per lb. 3 7
Tinmen's	,, ,,	404/–	,, ,, ,, 4 5
Blow pipe ...	,, ,,	407/–	,, ,, ,, 4 6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 29¾d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
¼ in. × 19 gauge	15½	Total per lb.	45¼	Approx. per ft.	12¾
⅜ in. × 19 ,,	13¾	,, ,,	43½	,, ,,	17
1 in. × 18 ,,	12¼	,, ,,	42	,, ,,	26
1¼ in. × 18 ,,	11¾	,, ,,	41⅜	,, ,,	31½
1½ in. × 18 ,,	11⅜	,, ,,	41⅛	,, ,,	37¾
2 in. × 17 ,,	13¼	,, ,,	43	,, ,,	60¼

Small Quantity extras :—
10 cwts. to 5 cwts. ... ... plus ½d. per lb.
5 cwts. to 2 cwts. ... ... ,, 1d. ,,
2 cwts. to 1 cwt. ... ... ,, 2d. ,,

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	286 10 0

Zinc

	£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards per cwt.	7 15 3
,, ,, 12 gauge (23 SWG), ,, ,, ,, ,,	7 14 9
,, ,, 14 gauge (21 SWG), ,, ,, ,, ,,	7 13 6

Brass Tubes

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	2 0½

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	109 0 0
,, Water Pipe, in coils	,,	111 5 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	,,	112 15 0
,, ,, ,, over 4 in. dia....	,,	114 15 0
,, Gas or Untinned Compo pipe...	,,	112 15 0

5 cwt. lots and over less 6d. per cwt. off basic prices.
Extras over Basis for quantities under 5 cwt.:
3 cwt. and under 5 cwt. ... ... per cwt. 4 0
1 cwt. do. 3 cwt. ... ... ,, 6 0
Smaller quantities than 1 cwt. priced specially.
Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.
Allowance for Old Lead, collected, £63 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8 4 6
do. White do. do. do.	,,	8 14 0
Sirapite Coarse BSS 1191 Class C do.	,,	8 15 9
do. Fine do. do. do.	,,	9 3 3
do. Browning BSS 1191 Class B do.	,,	8 15 9
do. Board Finish do. do.	,,	8 15 9
Blue Lias Lime, in 6-ton loads	,,	6 14 6
Hydrated Lime (Grey), in 6-ton loads	,,	5 10 0
do. (White) do.	,,	6 0 0
Lump Lime (Grey) do.	,,	5 7 0
do. (White) do.	,,	5 14 6
White Keen's or Parian Cement, in 1-ton loads...	,,	11 19 3
Pink Keen's or Parian Cement, in 1-ton loads ...	,,	11 14 0
Granite Chips, in 6-ton loads	,,	2 5 3
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 3½
1,200 yds.	,,	2 2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	2 9
1,200 yds.	,,	2 9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	,,	2 6½
1,200 yds.	,,	2 5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	3 0
1,200 yds.	,,	3 0

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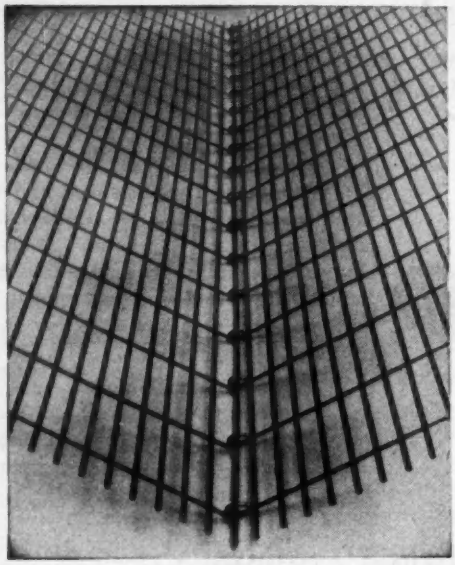

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PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	15	0
Gloss Paint	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	13	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	,,		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra... ...	,,		5	4½
do. do. (40 gal.) do.	,,		4	8½
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)...	,,	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes	per ft. sup.		9½
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2½
32 oz. do. do. do. do.	,,	1	6½
¼ in. Rolled Plate	,,	1	2½
7/16 in. Rolled and Rough Cast	,,	1	5
½ in. do. do.	,,	1	5½
¼ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	per ft. sup.	1	2½
do. Group 2	,,	1	8½
do. Standard Tints	,,	2	1½
do. Special Tints	,,	7	3
¼ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	7½
¼ in. Wired Cast	,,	1	9½
½ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 Cross reeded 5½ × 5½ × 3⅞ in. ...	each	3	6
P.B.3 Broad reeded 7½ × 7½ × 3⅞ in. ...	,,	5	4
P.B.32 Cross reeded 7½ × 7½ × 3⅞ in. ...	,,	5	4
P.B.4 Prismatic 7½ × 7½ × 3⅞ in. ...	,,	6	0
P.B.5 Flemish 7½ × 7½ × 3⅞ in. ...	,,	5	4
P.B.6 Boomerang 7½ × 7½ × 3⅞ in. ...	,,	6	0
Half Size Blocks—			
P.B.32 Cross reeded 7½ × 3¾ × 3⅞ in. ...	,,	4	6
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded	,,	7	6
P.B.3 Broad reeded...	,,	9	0
P.B.32 Cross reeded	,,	9	0
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
,, ,, ,, 5 ft. sup.	,,	5	7
,, ,, ,, 45 ft. sup.	,,	6	9
,, ,, ,, 100 ft. sup.	,,	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ...	,,	10	9
Not exceeding 180 ft. sup. or do.	,,	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6½
24 oz. ,, ,, ...	2,000		8½
26 oz. ,, ,, ...	2,000		11
32 oz. ,, ,, ...	2,000	1	2½
¼ in. Rolled Plate	1,000		10½
¼ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10½
do. Group 2	1,000	1	2
¼ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
7/16 in. Rolled Plate or Rough Cast	2,000	1	1
½ in. do. do.	2,000	1	1½
¼ in. Wired Cast, Hexagonal	2,000	1	4½
½ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM APRIL 18, 1960. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/11½	4/11
Labourers	4/4	4/3½

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of	‡A
Calc'er Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B.	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham /Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull B	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stouport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC (including Tilbury, Grays and the area north to Billericay)	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 5s. 1d. ; Labourers, 4s. 5½d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 5s. 0½d. ; Labourers, 4s. 5d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 4s. 1d. per hour. Women engaged on work other than craft processes, 3s. 9d. per hour.

For Building Trade Wages in Scotland, see page 218

M
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Pro bono publico...
Many museums gain from their use an acquisition too, for other buildings—
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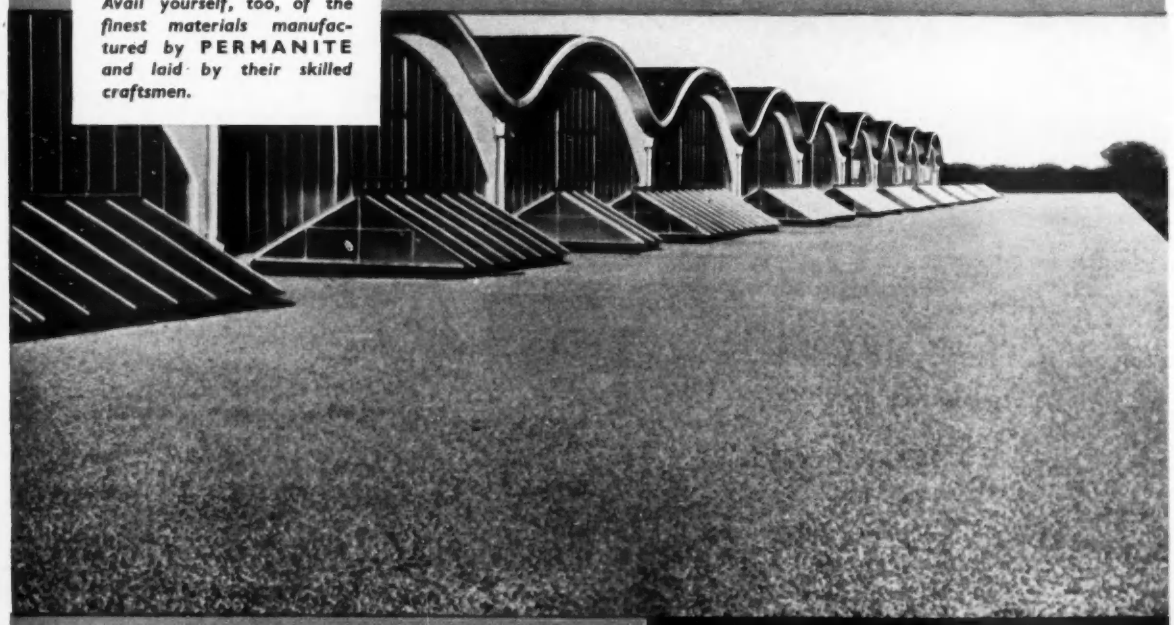

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TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 122 of this issue. The form can be used for more than one inquiry.

1. Flooring

Something new in flooring is offered by PARQUET PANELS which are factory sanded, sealed and polished and can be laid on any reasonably level sub-floor without the use of adhesives or nails. These panels are made up of three cores, the top of pre-finished European oak, the bottom of softwood whilst the centre core is of a honeycomb construction to prevent distortion. As the blocks are individually tongued and grooved when laid they firmly interlock on all sides.

When this system of flooring is laid over wood sub-floors, a cork cushion underlay is first put down to form a resilient base and to overcome any uneveness. Over floors in direct contact with the ground, such as concrete or stone, a moisture barrier film should also be laid. Provided the sub-floor is level, a screed is not essential.

Horsley, Smith & Co. (Hayes), Ltd., Hayes, Middlesex.

2. Ceilings

A new ILLUMINATED CEILING has been developed which could be useful in industrial situations such as factories, storage buildings and laboratories. It is free from fire risk and, by functioning as a thermal barrier, it can lead to a reduction in fuel costs. The system is based on three-foot-square diffusing panels supported by a lightweight aluminium track suspended from the structural ceiling. Daylight from laylights, or artificial light from lamps in the plenum, is diffused through the panels so that the space below is evenly illuminated. The diffusing medium used in the panels is a translucent sheet of flexible pvc. This pvc sheet is stretched over a channel section aluminium frame, which forms the perimeter of the panels, and locked permanently in tension. As the sheet does not pass over the outer edges of the frame, it is fully protected from abrasions and accidental damage. Since all the metal parts of this system are of aluminium, no maintenance or painting is required.

Lumenated Ceiling Ltd., Alliance House, Caxton-street, SW1.

3. Contractors' Plant

A range of overcrank guillotine SHEARING MACHINES, of ¼ in. capacity, has recently been introduced on to the market. They will cut a wide variety of both natural and synthetic materials, or a combination of both such as resin bonded and laminated materials. In many instances only minor adjustment is needed to the cutting angle. Stainless steel can also be cut by fitting special quality blades.

All blades have four cutting edges; the main members are constructed from quality cast iron and the end frames are open ended to allow trimming. The machine has electric clutch control and can be controlled by a foot-operated switch placed conveniently for the operator. This would facilitate the cutting of a long sheet. A push-button control is also placed on the top front of both main side members. When the button is depressed, the machine is allowed to make one stroke only. Continuous cutting can, however, be effected.

The Kingsland Engineering Co., Ltd., 25-37 Hackney-rd., London, E2.

A ROBOT PLATE-LIFTER, originally developed for manipulating large sheets of plate glass into groundlevel or overhead window frames, will apparently grip and lift any reasonably smooth sheet material and, within the limits of carrying capacity and reach, manœuvre it into position. This would have its uses in lifting and placing sheets of steel, wall cladding, ceramic tiles, curtain walling or any type of rigid panelling or facing. The machine is hydraulically operated and consists basically of a long jointed arm mounted on a turntable on an electric truck. At the end of the arm, four vacuum faceplates, giving a grip of approximately 900 lb., are carried on a 5 ft. x 6 ft. box section frame. Securely held by the faceplates, the sheets can be lifted up, down, across or around, under the guidance of the operator who stands by the controls on the turntable. Precise positioning is possible by further individual movements of the vacuum head and the faceplates themselves. All these movements, plus the mobility of the truck, enable operations to be carried out with speed and accuracy.

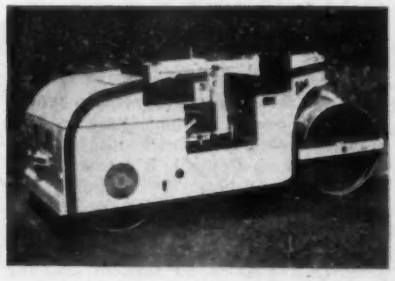
Hill Brothers Glass Co., Ltd., Chester-st., Birmingham, 6.

4. Compaction

Two types of VIBRATING TANDEM ROLLERS, which are used widely on the Continent, are now available in this country. Although their dead weight has been kept low so that they can be carried on any medium sized lorry, the compaction effort of these rollers is fairly high for, by using a vibrator within the roller shell, it is possible to get a deep penetration of the ground surface. The rollers are powered by air cooled diesel engines and incorporate hydraulic steering, underhood sprinklers for front and rear rollers and spring adjusted scrapers. The hand brake is sufficiently powerful to hold the roller on a slope, and the rollers will work on gradients of up to 1 in 4.

C.E.T. (Equipment) Ltd., Burlington Works, Abbey-rd., NW10.

The new Lumenated Westminster lighting system, based on a three-foot module, shown here installed in the reception area of a London office



News in Brief

Detention Centre at Guildford

THE HOME SECRETARY, MR. R. A. BUTLER, and the Minister of Housing and Local Government, Mr. Henry Brooke, have decided to approve a proposal by the Prison Commission to convert East Clandon Isolation Hospital, near Guildford, Surrey, into a detention centre for youths. This approval is subject to a condition that a substantial reduction is made in the number of staff houses to be built; the original proposal was for 26.

Firm's New Head Office

HOWARD FARROW LTD. announce that on August 8 they will occupy their new head office at Highfield-road, Golders Green-road, London, NW11. The present telephone number (Meadway 3232) will not be changed but will then be common to both head office and the plant depot.

Terrace Houses, Tilehurst

LAURENCE WEAVER, LTD., of 45 Ledgers-road, Slough, are to build 41 terraced houses, each of three bedrooms, on a site of approximately 2½ acres at Glebelands, Tilehurst, Reading. 'This is the first time since 1939' writes Mr. E. B. Jones, managing director, 'that terraced houses will have been built in Reading and the prices (ranging from £2,000 to £2,150 exclusive of garages) prove that where planning permission can be obtained for high-density development a reasonable price to the purchaser can be offered, despite present land values.'

St. John's Church, Hatfield

THE STEEP and varied roof pitch of this recently completed church (illustrated in 'The Builder' of July 15) resulted in a sloping ridge and warped roof planes. The tiling of these roof planes, which was carried out by E. H. Smith (London) Ltd., was one of the most difficult parts of the construction since there were no straight lines from which to work. This work involved quite a considerable amount of cutting and was undertaken with skill and craftsmanship in the best English tradition.

'Copper Data'

A REVISED edition of 'Copper Data' has been issued by the Copper Development Association. The volume, first published in 1935, now conforms with the standardised format adopted for all CDA technical publications. It contains general information on the properties, treatments and working of copper with details of commercial grades and applications. Copies may be obtained without charge from 55 South Audley-street, W1.

Farm Buildings Research

PART TWO of the bibliography of farm buildings research from 1945 to 1958 which is being compiled by the Agricultural Research Council, is now available. This section deals with 'Buildings for Potato Storage' and as with the first and subsequent sections, it regards farm buildings as part of farm equipment. It gives references to all matters affecting their design, construction, economics and use. It provides information from countries where conditions are similar to those in the UK, and includes abstracts of original material with a review summarising the main conclusions. Copies may be obtained, price 2s., from the Agricultural Research Council, Cunard Building, 15 Regent-street, London, SW1.

Gauge and Tool Makers' Trust

THE GAUGE AND TOOL MAKERS' ASSOCIATION is establishing the Gauge and Tool Makers' Educational Trust. Its objects will be to provide funds for grants to apprentices and students of the gauge and tool industry; to promote knowledge of its products; and to arrange exhibitions and demonstrations. The Gauge and Tool Makers' Trustee Co. Ltd. is being formed to act as the trustee.

Rubber in the Building Industry

THE ANNUAL usage of rubber in the building and engineering industries now accounts for a significant percentage of all dry rubber consumption, states the annual report of the Natural Rubber Development Board. This material's contribution to low cost road construction is considerable especially in varieties of bituminous surfacing and rubberised surface dressings.

Rubber Manufacturers' Meeting

AT THE ANNUAL GENERAL MEETING of the Federation of British Rubber and Allied Manufacturers held in London on July 21, the following officers were elected for 1960-61: Mr. H. G. W. Chichester-Miles (Empire Rubber Co., and Rubber Bonders Ltd.), president; Mr. S. D. Sutton (Veedip Ltd.) and Mr. C. H. M. Baker (Firestone Tyre and Rubber Co., Ltd.), vice-presidents.

Travel Grant to USA

MR. DOUGLAS SANDERSON, president of the Portland branch of the Amalgamated Union of Building Trade Workers, has been awarded a grant for two months' travel in the United States under the Trade Unionist Travel Grant Scheme of the Ford Foundation and English-Speaking Union.

Blackpool Technical College

BLACKPOOL TECHNICAL COLLEGE AND SCHOOL OF ART has issued its prospectus for the 1960-61 session. Enrolment of full-time students will take place at the College on September 9; part-time students from September 12 to 16. Full-time classes begin on September 12, part-time on September 19. It is interesting to note that the Building Department under Mr. H. T. Jackson, FRIBA, runs a sandwich course (partly part-time and partly full-time) for architectural students. It is the only RIBA listed school between the Mersey and the Clyde.

Company News

At a meeting of AUSTINS OF EAST HAM LTD., it was resolved that a final dividend of 10 cent (less tax) be recommended for payment on the issued ordinary share capital of the company for the year ended March 31, 1960.

ACROW (ENGINEERS) LTD. recommend the payment of a third quarterly dividend of 10 per cent (less tax) on the ordinary and 'A' ordinary shares of the company for the year ended March 31, 1960.

TURNER & NEWALL LTD. announce that they intend to post notices on August 3, 1960, to their ordinary stockholders convening an extraordinary general meeting of the Company to be held at the Chartered Accountants' Hall 46 Fountain-st., Manchester, on August 25, 1960, at 12 noon so that the appropriate resolutions can be submitted for the purpose of increasing the authorised capital of the company and approving the capitalisation and application of reserves now contemplated.

The directors of ALLIED IRONFOUNDERS LTD. recommend the payment of a final dividend of 12½ per cent (less tax) on the ordinary shares of the company for the year ended April 2, 1960.

THE BLUE CIRCLE CROUP OF COMPANIES are to increase output by 1,000,000 tons a year by the early part of 1963. Last year the Group's total cement deliveries were 9,904,218 tons, which included 2,262,013 tons from works overseas in which it is interested.

F. HILLS & SONS LTD. recommend the payment of a final dividend of 10 per cent (less tax) on the ordinary shares of the company for the year ended March 31, 1960.

THE BRITISH PLASTER BOARD (HOLDINGS) LTD. recommend the payment of a final dividend of 7½ per cent (less tax) on the ordinary shares of the company for the year ended March 31, 1960.

SIR LINDSAY PARKINSON & CO. LTD. recommend the payment of a final dividend of 21½ per cent (less tax) on the ordinary stock of the company for the year ended December 31, 1959.

HUMPHREYS LTD. recommend the payment of a final dividend of 9 per cent (less tax) on the ordinary shares of the company for the year ended November 30, 1959.

TRUSCON LTD. recommend the payment of an ordinary dividend of 7½d. per share (less tax) for the year ended December 31, 1959.

BAMBERGERS LTD. announce that their head office, and that of their subsidiary and associated companies, which has for many years past been at 27/28 Finsbury-sq., London, EC2, has been moved and is now at Gladesmore-rd., South Tottenham, London, N15. Tel.: Stamford Hill 8040.

ROBERTS ADLARD & CO. LTD. recommend the payment of final dividend of 12½ per cent (less tax) on the ordinary shares of the company for the year ended March 31.

Personal Column

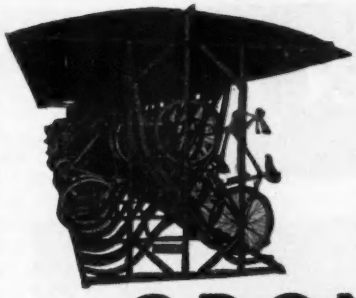
SIR RICHARD POWELL, BT, MC, director-general of the Institute of Directors, has been appointed a director of Bovis Holdings Ltd., the parent company of the B. H. Group.

MR. D. A. F. DONALD, chairman and managing director of National Cash Register Co. Ltd., has been appointed chairman of G. A. Harvey & Co. (London) Ltd. SIR THOMAS OVERY has resigned the chairmanship on medical advice, but remains a director of the company.

MR. K. A. SKINNER has joined the board of The Key Engineering Co. Ltd. as general manager; MR. H. L. HARCLERODE has been appointed general sales manager; MR. F. V. WICKHAM will be responsible for technical development, and MR. G. H. MORTLEY has been appointed commercial manager.

MR. CHARLES GORDON PICKETT has been appointed chief civil engineer of the new civil engineering contracts section of Thyssen Shaft Sinking Co. Ltd., Wesleigh-hse., Coombe-rd., New Malden, Surrey.

British Geon Ltd., a company in the Distillers Plastics Group, have recently appointed MR. G. H. GARLICK Press Officer of the company.



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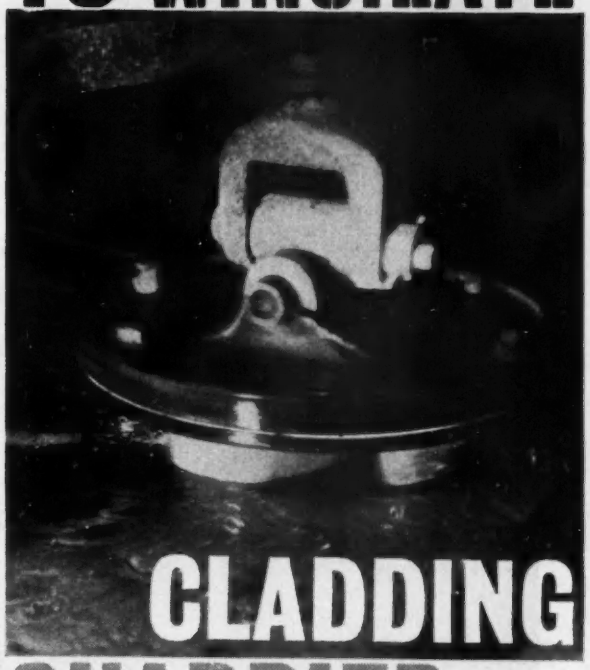

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Redcliff Redevelopment Area

Architect: Albert H. Clarke, F.R.I.B.A, A.M.T.P.I.
Bristol City Architect

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OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA (WESTERN).—Details of a £10,000 design competition for new Public Works Department buildings were recently announced. The buildings will be located on part of the Hale School site opposite Parliament House in Perth.

CANADA (ALBERTA).—The Western Rolling Mills, Ltd., is to construct a steel rolling mill in Calgary. . . . Proposed construction for the City of Edmonton comprises a $1m. chiurch, a $1m. Liquor Control Board building, and a school construction programme at a cost of $3.277m. . . . The Cameron Iron Works are to construct a $1m. addition to their present plant at Edmonton.

CANADA (BRITISH COLUMBIA).—The Coca Cola Co. is to construct a large addition to its Vancouver plant. . . B. F. Goodrich of Canada is to construct a new tyre recapping plant in Vancouver. . . . Tenders will shortly be called for the construction of men's residences for Notre Dame College, Nelson. . . . The Strongheart Co. is to construct a new plant at Burnaby. . . . Canada Creosoting Co. is to construct a new plant at Prince George.

CANADA (MANITOBA).—Construction of a new office and warehouse building has been announced for the Canadian Ingersoll-Rand Co. Ltd.

CANADA (ONTARIO).—The Metropolitan Toronto Housing Co., Ltd., has called for tenders for two $1.55m. building projects in East York township. . . . Over 300 acres of a $75m. industrial land development project in North York have now been sold to concerns interested in constructing plants. The area comprises a 1,200-acre site known as Project 400, and developed by the Signet Developments, Ltd., of Toronto. Among the companies who plan to build are: Northern Electric; Vick Chemicals; St. Mary's Cement; Canadian General Transit; Shell; Toronto-Dominion Bank; McLachlan's; Keele Lumber; National Hard Chrome Plating; Magcoa Co., Tornhill Insulation; Hurley Gregoris Construction Co.; Ontario Candle Manufacturing Co.; and North York Hydro Western. . . . Canadian Husky Oil has announced a $1m. struction programme at Fort William.

CANADA (ONTARIO). — The Northern Electric Co. Ltd. has purchased 58 acres of land in Metropolitan Toronto on which to construct additional premises.

CANADA (MANITOBA).—The Kimberley-Clark Co. construction programme provides for a 60 per cent increase of space to their present plant at Winnipeg. . . . The Provincial Government has approved the construction of 1,144 classrooms in 77 new high schools to be built throughout the province. The entire project will cost approximately $17m.

CANADA (MARITIME PROVINCES). — Dominion Stores, Ltd., have announced construction programme at Fort William. markets in Nova Scotia and New Brunswick.

CANADA (SASKATCHEWAN).—The Universit of Saskatchewan has announced a $14m., 5-year construction expansion programme. . . . Western Canadian Vegetable Oil Products is to construct a new office and plant building in Saskatoon.

CANADA (QUEBEC).—The Golden Eagle Refining Co. of Newfoundland is to construct a storage terminal in Montreal. . . . The Imperial Bank is to build a 16-storey building with 3 floors of underground garages at Montreal.

CHILE.—The Corporación de Fomento de la Producción is to spend US$17,000 on contracting a firm of consultants to study the installation of a cement plant in Antofagasta.

KENYA.—Work on Nairobi City Council's contractor finance scheme to provide another 3,000 houses for Africans at a cost of £1½m. will probably start within the next three months; the scheme will provide accommodation for more than 15,000 people. . . . The foundation-stone of a permanent British Army camp, a miniature Aldershot, at Kahawa, 15 miles north-east of Nairobi, was laid recently. Contractors for this £3½m. project are the Rhodesian firm of John Howard and Co.

NEW ZEALAND.—Tenders are to be called for a new building for the New Zealand Government Printing Office in Wellington. The estimated cost of the new building is about £1m. . . . The skyscraper proposed in Auckland for the Kerridge-Odeon Co. will be built to a height of 327 ft. It is expected to cost £2m.

NORTHERN RHODESIA. — The Federal Power Board has awarded a contract to the Cementation Company (Rhodesia), Ltd., to do exploratory work for the second stage of the Kariba project. This stage comprises the installation of an underground power station on the north bank of the Zambesi at Kariba. When the exploratory work is complete, a final decision on the design and siting of the power station will be possible.

SWITZERLAND.—D. J. McClennan and Partners, A/ARIBA, architects, of St. Owens-chambers, St. Owen-street, Hertford, have been appointed consultant architects for a new winter sports centre to be constructed at Lotschental.

SOUTH-WEST AFRICA.—Several new projects are reported from Walvis Bay by Barclays Bank DCO. Plans for a new secondary school and for a hospital (costing aproximately £115,000) have been approved and it has been announced that financial provision has also been made for various capital works in the town. These will include municipal staff houses (£47,000), tarring of streets (£30,000), electricity distribution (£19,000), housing schemes (£80,000), compound equipment (£46,000), coloured township (£45,000), and location extensions (£14,810).

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Tropical Building Studies

Housing Densities Examined at the BRS

THE FIRST in a new series of tropical building studies has been published by the Department of Scientific and Industrial Research. Number one in the series, 'Densities in Housing Areas' by Mr. P. H. M. Stevens, ARIBA, AMTPI (HMSO, price 10s.) contains the results of an investigation by the Building Research Station's tropical building section. Although aimed primarily at those concerned with housing overseas, it is of value to town planners, architects and builders in the United Kingdom.

The report stresses the importance of dissociating population density from the quality of living conditions, and points out that while bad living conditions can result from lack of light, air and sunshine or from overcrowding in terms of physical closeness, they do not necessarily follow simply because people live in dense conditions. The high densities, for example, of 1,500 persons per acre and upward in Hong Kong's new housing developments may not be ideal; but they represent, because of the use of multi-storey buildings, a much better environment for living than the squalid slum of congested shacks they replace.

The study does not recommend standards. It does, however, provide a tool with the aid of which better decisions on local standards can be made. It contains a wide range of data, including tables, graphs and diagrams, showing the effect on housing area densities of variations in any one or more of the different basic factors involved. A selection of photographs, illustrating many different types of housing area is also included.

SCOTTISH BUILDER

Forth Bridge Approach Road

A. M. CARMICHAEL LTD., of Edinburgh, have secured the contract for the construction of the three and a half mile long southern approach road for the New Forth Road Bridge. Cost of the work is estimated at £800,000. The firm will begin the two-year project shortly. Claimed to be one of the biggest road construction projects ever undertaken in Scotland, it includes seven bridges and three flyovers.

The first flyover will be located where the proposed road leaves the existing Edinburgh-South Queensferry road at Dolphinton Bridge; three roads will be involved here—a new slip road to Queensferry Village, a farm road to Dolphinton House and Craigie Farm and a clear road to carry through traffic from Edinburgh to Fife and the North.

ICW Scottish Chapter Dinner

THE ANNUAL DINNER of the Scottish Chapter of the Institute of Clerks of Works of Great Britain Incorporated will be held on October 29, 1960, in the Roxburgh Hotel, Edinburgh. Tickets are now available to members from the Chapter's new Hon. Secretary, Mr. A. Robson, 564 Lanark-road, Juniper Green, Lanarkshire.

Aberdeenshire Water Plan

THE FINANCE COMMITTEE of Aberdeenshire County Council have approved a plan for a regional water scheme at an estimated cost of £3,700,000. This figure includes £200,000 for additional piping from the scheme's intake at Huntly to a point at Gorse Gigth, near New Deer. The scheme extends to Peterhead and Fraserburgh, but does not include Deeside.

It was suggested by a Committee member that a reservoir might be built at Cabrach instead of having the additional pipes. The County Treasurer explained that a reservoir there would increase the cost by £1 million.

Bathgate Development

A SECOND development scheme at Bathgate has been proposed by Dunedin Properties Ltd., Edinburgh, who recently announced a scheme for shop and office development in George-street, Bathgate. This company has now acquired a new site 100 feet long at North Bridge-street, Bathgate, and will seek development approval for the area.

At nearby Whitburn, Highland Engineering Ltd., of Edinburgh, have agreed to develop a commercial site in Whitburn's main central area, and to build two new factories to the west of the town. Town Council approval has been given for both.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 18, 1960. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 11½d.; Labourers, 4s. 4d.

For apprentices, the rates are:

Year	Percentage of Craftsman's rate	For week of 44 hours s. d.
1st	25	54 6½
2nd	33⅓	72 9
3rd	50	109 1
4th	66⅔	145 6
5th	75	163 7½

For female labour, the rates are:

	s. d.
Operatives on craft operations (at end of probationary period)	4 4
Operatives on labouring operations (at end of probationary period) ...	3 10

New Buildings

WEST LOTHIAN.—CC Housing Com. have approved a draft layout plan for the first 500 houses of a new town being built at Blackburn.

EDINBURGH.—The TC has approved proposals for a comprehensive development in the Tollcross area. The City Engineer and Planning Officer have been asked to prepare proposals for detailed consideration.

THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

BUILDING

AUGUST 3

(AR) BIRMINGHAM City C.—Firm price tenders for:—(a) Eight two-storey dwellings at Glebe Farm-rd., Stechford. (b) 23 lock-up garages at Felstone-rd., Kingstanding. (c) 98 lock-up garages at Bartley Green, Harborne and Northfield areas. (d) 10 lock-up garages at Kingsbury-rd., Erdington. City A. Dep. £2 2s. (each contract). Tenders by Sept. 2.

AUGUST 4

(AR) SURREY CC.—Extensions to Hinchley Wood county prim. sch., Esher. County A.

AUGUST 6

(AR) ESSEX CC.—Firm price tenders for an assistant warden's house at Doucecroft Hostel, Kelvedon. County A.

AUGUST 8

(AR) BERKSHIRE CC.—Erection of a library at The Cloisters, Wantage. County A. Dep. £2 2s. Tenders by Sept. 20.

(AR) PEMBROKESHIRE CC.—Erection of new infants' sch. at Golden-la., Pembroke. County A. Dep. £2 2s.

(AR) WEYMOUTH & MELCOMBE REGIS BC.—Firm price tenders for a branch library at Wyke Regis, Dorset. TC.

AUGUST 9

(A) CONISBOROUGH UDC.—Erection of a 'Unity' type community hall. E&S. Dep. £2.

AUGUST 10

(AR) DURHAM CITY C.—Adaptation of former Hetton-le-Hole Further Education Centre. County A.

(AR) PORTSMOUTH CITY C.—Remodelling of 'D' floor as re-organised pharmacy dept., College of Technology. City A. Dep. £1.

(AR) SMETHWICK CBC.—Erection of 12 two-bedroom maisonettes at Marley House, Abbey-rd. Boro' E&S. Dep. £2 2s. Tenders by Sept. 9.

AUGUST 12

(AR) BEDFORD BC.—Erection of seven shops, three flats and three maisonettes at Brickhill. Boro' E&S. Dep. £3 3s.

(AR) EAST SUFFOLK CC.—Firm price tenders for additions at Stowmarket prim. sch. (second instalment). County A. Tenders by Sept. 12.

(AR) HORNSEY BC.—Erection of 53 flats and maisonettes at Myddelton-rd. and Campsbourne-rd., Hornsey, N8. Boro' E&S. Tenders by Sept. 26.

(AR) MITCHAM BC.—Erection of 157 dwellings at Phipps Bridge development scheme. Boro' E&S. Tenders by October 5.

AUGUST 15

(AR) LEICESTER CC.—Firm price tenders for residential hostels at Loughborough College. County A. Tenders by Sept. 19.

AUGUST 23

(A) ILFORD BC.—Extension to metalwork room at Mayfield sec. boys' sch., Goodmayes-la. Boro' E. Dep. £2 2s.

AUGUST 29

(A) WALSALL CBC.—Fixed price tenders for a new occupation centre at Proffitt-st. Boro' E&S. Dep. £2 2s.

AUGUST 30

(AR) GREENWICH MBC.—Erection of new branch library at Brook-la., Kidbrooke, SE3. Boro' E&S.

SEPTEMBER 1

(A) MAIDENHEAD BC.—Firm price tenders for a pair of houses and garages, with siteworks, etc. Boro' E&S. Dep. £2 2s.

SEPTEMBER 2

(A) CROYDON CBC.—Erection of new swimming bath at community centre site, Central Parade, New Addington. Boro' E.

(A) FARNBOROUGH UDC.—Erection of 15 one-bedroom flats, with the conversion of an existing building to provide communal rooms, etc., and laying of paths and courts, at Farnborough-rd. E&S.

SEPTEMBER 3

(A) MIDDLESBROUGH EC.—Fixed price tenders for extensions to Stainsby sec. schools. Director of Housing. Dep. £5 5s.

SEPTEMBER 6

(A) ROCHESTER CITY C.—Fixed price tenders for 62 flats at Troy Town redevelopment area. City S. Dep. £3 3s.

SERVICES, PAINTING, MATERIALS, ETC.

AUGUST 12

(A) DAGENHAM BC.—Supply of internal and external doors at Limbourne-ave. estate. Boro' E&S.

(A) WREXHAM BC.—Fixed price tenders for:—(a) Demolition of 91 houses within the Borough. (b) Restoration of stonework to the Cemetery Chapel. Boro' E&S. Dep. £1 1s.

AUGUST 15

(AR) NORTHAMPTONSHIRE CC. — (a) Erection, (b) heating, domestic hot and cold water installations, etc., or (c) electrical installation at Corby Exeter and Wellingborough Croyland Hall Farm estate prim. schools. County A.

SEPTEMBER 1

(A) FARNBOROUGH UDC.—Installation of 218 power points, with other incidental work, in 48 dwellings at Knellwood estate. E&S.

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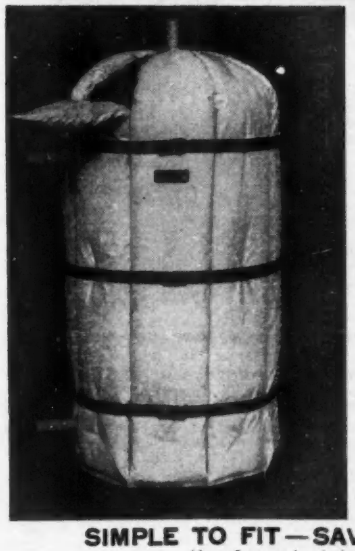

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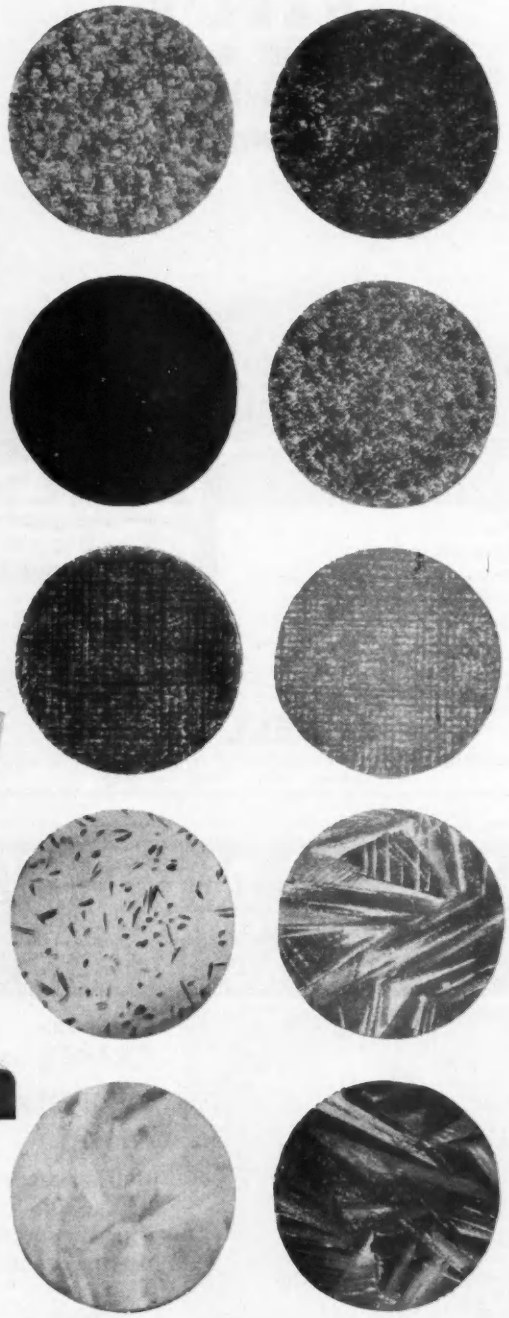

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AUGUST 1

(R) NORTHUMBERLAND CC.— Supply and laying of approx. 124,000 sq. yd. of hot rolled asphalt on various sections of roads. County S.

AUGUST 13

CHATHAM BC.—Reconstruction and surfacing, in hot rolled asphalt, of approx. 3,000 super yd. of carriageway, with ancillary work, at New Road-ave. Boro' E&S. Dep. £2 2s.

AUGUST 15

STAMFORD BC.—Construction, in rc, of three 36ft. dia. sludge digestion tanks, each of 130,000 gal. capacity; two pyramidal humus tanks, each of 16,000 gal. capacity, and ancillary works. Pick, Everard, Keay & Gimson, engrs., 6 Millstone-la., Leicester. Dep. £5 5s.

AUGUST 18

BLACKBURN & DISTRICT HOSPITAL MANAGEMENT COM.—Supply of approx. 20,000 gal. of paint to various Hospital Management Committees in Manchester Region for a period of 12 months from Oct. 1. Secretary to Com., Royal Infirmary, Blackburn.

AUGUST 19

ROMSEY & STOCKBRIDGE RDC.—Firm price tenders for the laying of approx. 1¾ miles of 6in. dia. spun-iron water mains, approx. 2¼ miles of small dia. mains, and incidental works. Lemon & Blizard, Ccl's constg. engrs., Telford-hse., Hulse-rd., Southampton. Dep. £3 3s.

AUGUST 22

ALDERLEY EDGE UDC.—Laying of approx. 3,300 yd. of 9 to 36in. dia. concrete and steel sewers and the construction of an ejector house. Ward, Ashcroft & Parkman, Ccl's constg. engrs., 38 The Temple, Dale-st., Liverpool 2. Dep. £2 2s.

BANBURY BC.—Fixed price tenders for a new sewage pumping station, with approx. 1,900 lin. yd. of 12 to 24in. dia. concrete and SGW gravity sewers, and 1,100 lin. yd. of 14in. dia. asbestos-cement rising main, for Southam-rd. sewerage. J. D. & D. M. Watson, Ccl's constg. engrs., 67 Tufton-st., SW1. Dep. £10 10s.

SEPTEMBER 7

NIDDERDALE RDC.—Laying of approx. 3,300yd. of 9 and 6in. sewer, and 4in. rising main, etc., for Rufforth Sewerage scheme. W. K. Rodwell, constg. engrs., 40 North-st., Wetherby. Dep. £2 2s.

GENERAL BUILDING WORK (LONDON)

BATTERSEA.—Appointment of Architects and Consultants.—The MBC have appointed architects and consultants for the following housing schemes:—(*i*) *Nos. 207/217 Lavender Hill;* Architects — Messrs. Howes & Jackman, 1 Verulam-bldgs., Grays Inn, WC1; Consulting engineer—Major W. V. Zinn, Collingham-hse, Eagle-st., WC1; Heating consultants—Messrs. J. E. Greatorex & Partners, 15 Berners-st., W1. (*ii*) *Speke-road;* Architects—Messrs. George, Trew & Dunn, 6 Queen Anne's Gate, SW1. (*iii*) *Livingstone-road;* Architects—Messrs. George, Trew & Dunn, 6 Queen Anne's Gate, SW1. (*iv*) *Plough-road;* Heating consultants—Messrs. J. E. Greatorex & Partners, 15 Berners-st., W1. (*v*) *Knox-road/Currie-road;* Architects—Messrs. George, Trew & Dunn, 6 Queen Anne's Gate, SW1. Consulting engineer—Major W. V. Zinn, Collingham-hse., Eagle-st., WC1. These architects and consultants have acted for the Council in respect of other housing schemes.

HOLBORN. — Office Development. — The Bernard Sunley Organisation have acquired a freehold site at 69/73 Theobalds-rd. for £83,000, and are to proceed immediately with the construction of an office and showroom building of approximately 166 sq. ft. overall. The building will include a private garage in the basement.

KENSINGTON.—New Convent Building. —Despite objections from local residents, a four-storey building is to be erected in Kensington-sq., W8, by the Convent of Assumption.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

LAMBETH.—Site Acquisition.—The LCC have approved in principle a proposal to divert and widen Bayliss-rd. The opportunity had risen to acquire, by agreement for £35,000, some property which would be affected by the scheme and acquisition would help to ensure that there was no delay in carrying out the scheme.

LAMBETH.—School Adaptations.—The LCC have approved proposals submitted by the appointed architect, Julian Sofaer, ARIBA, for adapting for prim. sch. use the premises in Minet-rd., Lambeth—formerly occupied by Loughborough county sec. sch. The first stage includes the construction of internal sanitary accommodation; the conversion of two practical rooms to general classrooms and of five sub-standard classrooms into three classrooms; the provision of a library; and a staff common-room, etc. Estimated cost of the work, including professional fees and incidental expenses, is £10,680.

LONDON.—LCC.—The following is a list of applications for planning permission recently received by the LCC:—23 houses and four eight-storey blocks of flats at 1-13 Dulwich Wood Park, 20-30 Farquhar-rd. and 146 College-rd. (Austin Vernon and Ptnrs. on behalf of Wates, Ltd.); flats and garages at Marlborough-st. and Ixworth-st., Chelsea (Keith Parsons, 36 Cedars-rd., SW4); division police station at Wood-st./Love-la., City (Farquharson, McMorran and Whitby on behalf of City Corporation); rebuilding of Royal Palace Hotel at 2-14 Kensington High-st. (R. Seifert and Partners); seven-storey hotel extension at 20-26 Talbot-sq. and 1-24 Conduit-pl., Paddington (J. Brewster, 16 Porchester-pl., W2); Borough Council housing at Roman-rd. area, Poplar (Poplar BC); flats and basement garage at 33-43 Bryanston-sq., St. Marylebone (Sir A. E. Richardson & Houfe); Borough Council housing at Harman-st. area, Shoreditch (Shoreditch BC); Borough Council housing—88 dwellings, laundry, garages, etc., at site bounded by Church Walk, Town Hall Approach, Milton Grove and Howard-rd., Stoke Newington (Howes and Jackson on behalf of BC); nine-storey flats at 19 Westleigh-av., Wandsworth (Andrews, Emerson and Sherlock).

ST. MARYLEBONE.—Multi-storey Garage.—A new application for a multi-storey garage on the site of Nos. 30-42 Harley-st. and 12-16 Queen Anne-st. has been lodged with the LCC on behalf of Parcar Ltd. The scheme was the subject of objections heard by the Marylebone Magistrates earlier this year. They determined in favour of the scheme, but three of the objectors have appealed to Quarter Sessions. Architects are H. V. Lobb & Ptnrs.

ST. PANCRAS.—Factory Building.—MBC have agreed that a site formerly occupied by Nos. 110-114 Grafton-rd., NW1, at present occupied by two prefabricated bungalows, should be leased to a local engineering firm for the erection of a factory building.

STOKE NEWINGTON & HACKNEY.—Conversions.—A scheme for conversion and improvement work at Northwold estate has been approved by the LCC. Estimated cost of the work, which will be carried out by direct labour, is £29,043.

WANDSWORTH. — Development. — The LCC have approved in principle plans for the provision of a combined district and area office and works depot on site at Ashburton estate. Estimated cost, including architectural and other expenses, is £31,100.

WESTMINSTER. — Modernisation. — A scheme for the modernisation of Maclise-bldgs., Millbank estate (66 flats), has been approved by the LCC. The estimated cost of modernising the flats is £44,605.

WESTMINSTER.—Block of Offices.—An application has been made to the LCC by the firm of architects, Chapman, Taylor & Ptnrs., for a block of offices 22 storeys high on the site of Nos. 22-40 Victoria-st. and 6-8 The Broadway. This is a revised version of an earlier scheme which provided for a building 32 storeys high.

(PROVINCIAL)

ASHOVER.—Chesterfield RDC propose housing development at Littlemoor.

ASHTON-IN-MAKERFIELD. — Divisional Planning Officer to reclaim land in the Bryn area—170 acres for open use, 100 acres for industry and 30 acres for housing purposes.

ASHTON-UNDER-LYNE.—BC propose 200 flats at Ellison-st. and 40 flats at Vicarage-cres.

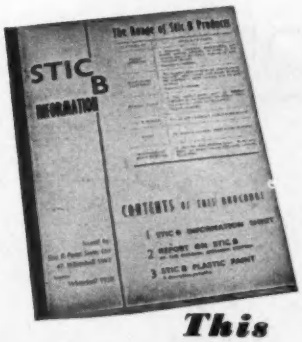
BARROW-IN-FURNESS. — Vickers-Armstrongs Ltd. propose erection of health physics building.

BEACONSFIELD.—Planning and by-law approval has been given to extensions at Oakdene sch., Wilton-rd., Beaconsfield. These include four new classrooms, three music teaching rooms and an extension to the dining room.

BEEDON (Berks.).—Wantage RDC is to inform CC that they are prepared to negotiate, with a view to sale, on a plot of land at south-eastern end of Westons housing site for erection of new sch.

BELFAST.—Belfast harbour is to have a new deep-water quay, costing, with repairs to the Dufferin and Spencer Docks, about £1,000,000.

BERWICK.—Barrett, Sons & Partners, High Bridge, Newcastle-on-Tyne, have been appointed quantity surveyors by Newcastle Regional Hospital Bd. for a new ward block at Berwick Infirmary. The Board's Chief



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Architect is P. H. Knighton. . . . TC to build shops and flats at Walkergate.

BIRKENHEAD.—Following for BC:—Revised housing programme.—536 dwellings at Woodchurch estate; 156 dwellings at Brenton Dell; 125 dwellings at Queensbury-st.; 84 dwellings at Sydney-rd.; 18 dwellings at Apple Grove; 28 dwellings at Brook-st.; 60 dwellings at Thingwall Hall; 18 dwellings at Woodward-rd. . . . Also following for BC:—Extension to Landican Crematorium; community centre at Carr Bridge-rd.; health/children's/welfare dept., adjoining education offices; final phase of extensions at prim. sch., Overchurch.

BISHOP AUCKLAND.—Mr. T. O'Rourke, fireplace manufacturer, Wideopen, Newcastle-on-Tyne, is seeking permission to construct showrooms at Newgate-st.

BLACKBURN.—CoE Auth. propose erecting six new jun. schools in various areas.

BLACKPOOL.—Governors propose six classrooms at Arnold boys' sch. . . . J. W. Anderson propose erection of 20 bungalows/19 garages at Warren-dr. . . . W. L. Lowe, Ferguson & Ptnrs., Liverpool, propose extensions to flats at Banks-st./Promenade. . . . Following for BC:—Branch library at Anchorsholme; three classroom extensions at prim. sch., Norbreck.

BOLTON.—Planning permission has been granted by Bolton Planning and Estates Com. for a development scheme in the Astley Bridge area, which is estimated to cost between £2,000,000 and £3,000,000. Made by Catlow, Davis and Co. on behalf of a client who has not been named, the scheme includes the erection of six 11-storey blocks of flats, a residential hotel, a restaurant, a petrol filling station, shops and offices. Permission is subject to the approval of the MH&LG and to the submission of detailed layout and building plans.

BOURNEMOUTH.—Eight acres of land nr. Parkstone Golf Course, Lilliput, with planning permission for 40 houses and semi-bungalows, has been sold for £42,500 by Alfred Savill & Sons, Wimborne.

BRADFIELD (Berks.).—RDC are negotiating for purchase of land adjoining Sulhamstead village hall for housing development.

BRADFORD.—EC propose erection of new sec. sch. at Lister-ave.

BUXTON.—Cintride Ltd., Sheffield, propose erection of small tool factory at Buxton-rd. . . . Derbys. EC propose erection of College of Further Education on site of Empire Hotel.

CATERHAM & WARLINGHAM.—UDC propose new central library at Stafford-rd., Caterham. Est. £43,050.

CHEADLE.—RDC propose erection of swimming baths. . . . Staffs. EC propose branch library at Cheadle-rd.

CHESHIRE.—The Manchester Commercial Building Co. Ltd. has received permission to redevelop the site of the Tudor Cinema, Bramhall (Cheshire), for shops and offices.

CHESHIRE.—EC propose new sch. programme during 1962. Est. £5¼m. . . . Erection of branch libraries at Partington/Hoylake/Heald Green/Weaverham is proposed.

CHESTER.—TC propose erection of 70 houses at Blacon.

CHIPPENHAM (Wilts.). — Extensions planned for Lackham School of Agriculture.

CHORLEY.—Mawdesley Estate Ltd. propose housing development at The Smith, New-st.

COCKERMOUTH (Cumb.).—RDC propose erection of 68 houses at Dearham.

COLERAINE (Co. Londonderry).—BC have approved layout plans for an extension to the Millburn housing estate, comprising 140 houses, a four-storey block of flats—with four ground-floor shops, eight maisonettes, 24 old people's houses and six flats and garages.

CUMBERLAND.—CC is planning the erection of a comprehensive sch., costing £500,000, at Egremont. Plans by County A.

DEVIZES.—TC are to consider proposals to increase population by 3,000 by taking 'overspill' from large town. These are contained in the latest Town Map and Development Plan. Proposals cover next 15 years.

DRIFFIELD.—RDC propose erection of six bungalows/six houses at Nafferton.

ENNERDALE.—RDC propose 15 old people's bungalows at Harris Villa, and the erection of an old people's home at Bookwell.

FRODSHAM.—CoE Auth. propose second phase of CoE sch.

GATESHEAD.—Clarke, Chapman & Co. Ltd. are to erect offices at Neilson-rd. and have prepared their own plans. . . . Boro' E (G. F. Winters) has prepared a scheme for aged persons' dwellings at Bensham Rectory site.

GOLBORNE (Lancs.).—District Council is planning to spend about £150,000 on converting the former American Army camp at Lowton into a luxury estate of 105 de-luxe houses, etc.

GOOLE.—A proposal to build 33 two-storey shops round a cark park in the Boothferry-rd. area comprising Wesley-sq., the Cinema Palace and the market hall is to be discussed by the TC. The scheme was submitted by Town & City Properties Ltd.

HALTWHISTLE.—RDC has received an inquiry from a firm wishing to erect a factory in the area, and the Council has asked the firm to consider a site formerly occupied by a paint firm.

HARWELL (Berks.)—Wantage RDC is to consider layout of proposed housing development of a block of about 100 houses at Harwell.

HEBBURN (Co. Durham).—UDC is seeking loan sanction for £175,925 for houses, flats and maisonettes. The work is being undertaken by direct labour under the supervision of the Surveyor (R. C. Bestow).

HYDE.—TC propose erection of 288 houses and bungalows, for sale, at Wych Fold estate.

LANCASTER.—Christ Church Parochial Church Council propose erection of day sch. at Derwent-rd.

LEEDS.—Sir Lindsay Parkinson & Co. Ltd. propose erection of 57 flats/57 garages, with 10 flats over, at Westwood-la.

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LITTLE SUTTON (Wirral).—Geo. Wimpey & Co. Ltd. propose development of 31 acres at Gorsthills.

LIVERPOOL.—James Austin Ltd. propose erection of new factory at Speke Industrial estate. . . . Threlfall's Brewery Co. Ltd. propose reconstruction of PH, St. James-st. . . . Littlewoods Mail Order Stores Ltd. propose site redevelopment at Walton Vale.

LLANDUDNO.—BC propose erection of sch. for handicapped children at Nant y Gamar-rd.

LYTHAM ST. ANNES.—W. C. Evans & Co. (Eccles) Ltd. propose erection of laboratories/warehouse/offices at Warton ex-RAF camp. Est. £150,000.

MANCHESTER.—Lucy & Sunderland Ltd. propose extensions to timber store at Leestone-rd., Northenden. . . . Manchester Executive Council of the National Health Service propose erection of office block at Ardwick.

MARKET DRAYTON (Salop).—CC propose erection of new fire station.

MIDDLESBROUGH.—TC is being recommended by the Parks Com. to approve a £32,000 scheme for the construction of a grandstand, to hold 700 people, at a new sports stadium. Elder & Lester, architects. . . . RC Auth. are seeking permission to extend the St. Pius X sch. . . . EC are planning the erection of a sch. for the deaf and a sch. for educationally sub-normal children, at Saltersgill.

MORPETH.—TC is planning the erection of 89 houses of the 'Gregory' type at Spelvitla. site. Boro E is F. K. Perkins.

NEWCASTLE-ON-TYNE.—MoE has included in the EC's current year's programme a £750,000 scheme for the construction of a College of Further Education. . . . City C has received loan sanction for £1,975,551 for parts 1 and 2 of the new Town Hall at Barras Bridge.

NEWCASTLE-ON-TYNE. — M. & H. Gatoff, Newcastle, are the architects for a proposed three-storey factory and offices at Duke-st. for Messrs. Hutchinson and Co. Ltd., engineers, etc. . . . David Landau Ltd., scrap metal merchants, Heber-st., Newcastle, are to erect a warehouse at Skinnerburn-rd. Architects are Tarren and Caller, Newcastle-on-Tyne. . . The 'Albion Hotel,' Clayton-st., is to be converted into showrooms to plans by L. H. Fewster & Ptnrs., London, W1.

NEWCASTLE-ON-TYNE.—A new store, estimated to cost about £100,000, is to be built at Blackett-st., Newcastle-on-Tyne, by Hepworths Ltd.

NEWPORT.—An old people's home, which will house 50 people and cost about £90,000, is to be erected by Newport (Mon.) TC at Gaer-rd.

NORTH BADDESLEY (Hants).—Romsey & Stockbridge RDC has approved sewerage scheme for North Baddesley, allowing for potential population of between 12,000 and 13,000. Est. £80,000.

NORTH RIDING.—EC has approved plans for combined library and health centre at Loftus.

NOTTINGHAM.—TC propose erection of 60 houses and 21 garages at Denman-st. area.

ORRELL.—UDC propose erection of 10 bungalows/10 houses. . . . Lancs. CC propose erection of police houses at Bank-ave.

RAMSBOTTOM.—UDC propose housing development at Acre Meadow estate.

RIXTON.—CoE Auth. propose erection of new jun./infants sch.

ROMFORD.—The Bernard Sunley Organisation have acquired freehold factory premises at Collier Row-rd., Romford, together with four acres of industrial land, for £100,000. After renovation of the existing buildings, the addition of one new industrial unit and of an office block, the premises are to be occupied by ICI Ltd.

ROTHERHAM.—RDC propose erecting 52 houses in various areas for sale.

SADDLEWORTH.—UDC propose erection of 50 bungalows at Grasscroft.

ST. HELENS (Lancs.).—Co-operative Society propose erection of new supermarket at Newton-rd.

SALISBURY.—SEB have submitted scheme for construction of new 33,000 and 11,000 volt transformer sub-station on land at Dairy House Bridge at City boundary on

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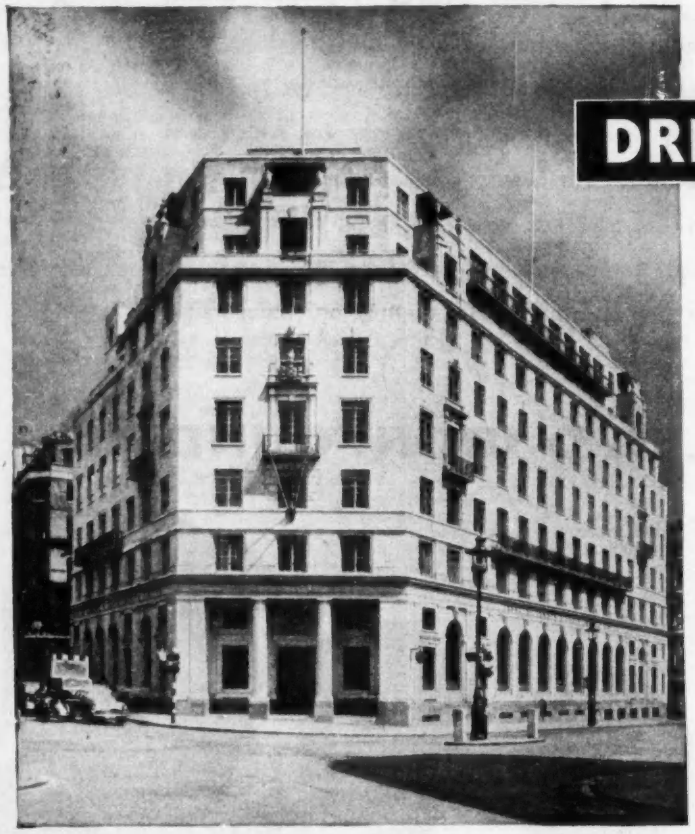

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SALE.—J. Maunders & Sons Ltd. propose erection of four blocks of seven-storey flats at Ashton-la.

SEDGLEY (Staffs).—UDC propose erection of 24 houses at Glen-rd. and 20 flats at Beacon-la. . . . Following for CC:—Infant welfare centre at Ladies Walk and police housing at Kinfare-rise.

SOUTH SHIELDS.—EC has received loan sanction for £378,353 for the third instalment of the new Marine and Technical College (contractors are Richard Costain Ltd.), and £71,632 for the new Whiteleas county jun. mixed sch. (contractors are Carruthers and Son).

SPENNYMOOR. — The North - Eastern Housing Assn., Windsor-ter., Newcastle-on-Tyne, are to erect 120 houses at Barnfield-rd. on behalf of UDC. It is understood that no architects have yet been appointed.

STAFFORD.—TC propose purchase of land at Common-rd. for light industrial purposes. Est. £50,000.

STANDISH.—UDC propose erection of 20 old people's bungalows at Broomfield estate.

STANLEY.—UDC has received loan sanction to cover the cost of building 88 houses, 14 old people's cottages and 54 garages at Lintz.

STOCKPORT.—BC is to build a home to accommodate 40 old people at Heaton Moor.

STOCKPORT.—Corporation are to build a new ambulance depot, costing about £40,000, at Heaton-la.

STOKE-ON-TRENT.—TC propose erection of large modern shopping centre and public conveniences at Stone-rd.

STRATFORD-ON-AVON.—BC have approved a capital works programme costing £786,000. The programme includes a £320,000 sewage works, a £180,000 swimming pool, extensions to the municipal offices, and road and bridge works.

STRETFORD.—BC propose erection of 12 flats at Winchester-rd. site, and 43 flats/bungalows at "Happy Man' site. . . . Following for Lancs. EC:—Additional classrooms at St. Hugh of Lincoln sch. and Cardinal Vaughan sec. sch. for girls.

SUNDERLAND. — Vaux & Associated Breweries Ltd., Sunderland, are planning the erection of a club and car park at South Hylton. The firm's staff architect is N. H. Cox.

SWINTON.—RC Auth. propose extension at Ambrose Barlow sec. sch.

THORNABY-ON-TEES.—TC is to buy 347 acres of land at Thornaby airfield for housing and industrial purposes. The cost will be £198,000.

TURTON.—A proposed layout for the erection of 22 aged persons' bungalows, a warden's bungalow, and communal buildings has been approved by Turton (Lancs.) Council.

WAKEFIELD.—D. Beighton proposes the erection of six houses and 22 bungalows at Potovens-la. . . . R. H. Brown (Knottingley) Ltd. propose erection of 14 houses at Ferry-la. . . . S. Scott, Pudsey, proposes residential development at Newton Hill.

WAKEFIELD. — Metrovincial Properties Ltd., London, propose erection of showrooms/shops/office at Corn Exchange-bldg., Westgate, after demolition of existing property.

WALLINGFORD (Berks).—Plans of Associated British Maltsters Ltd. to increase size of buildings at grain silo on outskirts of Wallingford by a further third, bringing total site development up to almost 100,000 sq. ft., have been forwarded for direct approval of MH&LG.

WEST HARTLEPOOL.—EC has asked the MoE to approve in principle the construction of new premises to replace the Claremont special sch. premises.

WEST HARTLEPOOL. — The North-Eastern Housing Assn., Windsor-terr., Newcastle-on-Tyne, are to carry out a revised scheme for the erection of 60 houses at Rift House estate. . . . The Council is planning the erection of 16 old people's flatlets at Glamis Walk. Improvements are also proposed to the public abattoir. . . . The MoE is being asked to approve, in principle, the provision of new premises to replace the existing Claremont special sch.

WHICKHAM (Co. Durham).—UDC is considering the provision of swimming baths at Dunston on a site formerly reserved for a community and health centre.

WIGAN.—Corporation is proposing to build by direct labour 165 houses, costing £227,638, at Marsh Green.

WIGAN.—TC propose erection 50 houses at Wilfred-st., and 138 houses/ 14 flats/ 93 garages at Giant's Hall.

WOKINGHAM.—TC is seeking MH&LG sanction to borrow £109,950 for developing next stage of Norreys Barn estate.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

BEDLINGTON.—Erection of social club at Netherton. J. M. Angus, 3 Gallowgate, Newcastle-on-Tyne, architect. (A) CWS Building Dept., Benton-rd., Newcastle-on-Tyne.

BILLINGHAM-ON-TEES.—Additions to St. Aidan's Church, Roseberry-rd. estate. Architects are Charlewood & Curry, 14 Neville-st., Newcastle-on-Tyne. (A) Charles Tennet (Contractors) Ltd., Church-rd., Stockton-on-Tees, £26,000.

BRADFORD.—Classroom block at Rosemount for TC. (A) Vic Hallam Ltd., Nottingham, £18,370.

CHESTER.—Erection of 40 dwellings at Plas Newton estate for TC. (A) John Hughes (Contractors) Ltd., Wrexham, £53,149.

DARLINGTON. — Additions to 'East Haven' to provide more accommodation for blind and handicapped people for EC. Boro' A is E. A. Tornbohm. (A) Direct labour.

DURHAM.—Alterations to observatory for Durham University. Architects are Easton & Robertson, Bedford-sq., London, WC1. (A) J. & W. Lowry, 64 Bath-la., Newcastle-on-Tyne, £10,000.

'A Building Firm Steps Out'

Reprint Now Available

IN RESPONSE TO MANY REQUESTS, the series of articles which have lately appeared in 'The Builder' under the title 'A Building Firm Steps Out' has been reprinted in booklet form and is now available from the Publisher, The Builder, Ltd., 4 Catherine-street, Aldwych, W.C.2. The price is 2s. 6d. (2s. 10d. post paid) but orders from firms who wish to distribute copies to their senior executive staff and foremen can secure copies at 2s. each (post paid) if 12 or more copies are ordered.

The book, written by Cecil A. Francis, Director of the NFBTE Building Advisory Service, describes the growing pains of a firm of builders, Albert Head, Ltd., employing about 200 men. It bids fair to become a classic of its kind.

GATESHEAD.—Erection of proposed Elgin sec. technical sch. for EC. (A) Middleton & Co., Queen Alexandra Bridge Approach, Sunderland, £248,513.

HEMEL HEMPSTEAD.—(a) Erection of 12 'Homeville' flats and six garages on site of 'Old Anchor' PH. (b) Erection of 15 houses and 20 garages at Runham-rd. housing site, Wheelers-la., for BC. Boro' E&S is A. H. Turner, The Homeville Co. Ltd., quantity surveyors. (A) Kelray Builders Ltd., Barnacres-rd., Hemel Hempstead, Herts., £15,985.

HORNSEY.—Erection of changing pavilion at Redston-rd. playing field for BC. (A) Adkin Construction Co. Ltd.

ISLEWORTH.—Erection of central heating station building at London Airport for MoAv., in connection with new passenger buildings programme. Frederick Gibberd, FRIBA, architects. (A) Taylor Woodrow Construction Ltd. Est. £100,000.

LIVERPOOL. — Radio and mechanical engineering building at Technical College, Riversdale, for TC. (A) D. Lesley (Contrators) Ltd., Liverpool 2, £142,984.

(GD) LONDON (Air Ministry).—Contracts to the value of £4,000 or over for week ended July 22:—*Building work:* St. Mawgan, Cornwall, Dudley Coles Ltd., Bath-st., Plymouth, Devon; RAF Station, Woolfox Lodge, Rutlandshire. Bosworth & Wakeford Ltd., Lawford-rd., Rugby, Warwicks.; Bawdsey, Suffolk. L. J. E. Bye, Buckenham-rd., Attleborough, Norfolk; Swanton Morley, Norfolk. Walter Lawrence & Son Ltd., Ventnor-hse., London-st., Swaffham, Norfolk; Hemswell, Lincs. W. & J. Simons, Friars-la., Lincoln; Faldingworth, Lincs. Frank R. Eccleshare Ltd., Dixon-st., Lincoln; Honington, Suffolk. Haymills (Contractors) Ltd., Hanger Green, Western-ave., London, W5. *Civil engineering:* Middleton St. George, Co. Durham. Dowsett Engineering Construction Ltd., Dowsett-hse., Durham-rd., Gateshead-on-Tyne 9, Co. Durham. *Runway construction:* London Airport, Hounslow, Middlesex. Sir Lindsay Parkinson & Co. Ltd., 6 Lambeth-rd., St. George's Circus, London, SE1. *Artificer's work:* Shawbury (Salop.), etc. Whitchurch (Salop.) Contractors Ltd., Sherrymill Hill, Whitchurch, Salop.; Syerston, Notts. W. J. Roberts (Bottesford) Ltd., High-st., Bottesford, Notts.; Rufforth (York), etc. F. Shepherd & Son Ltd., Blue Bridge-la., York.; Oakington (Cambs.), etc. Tooley & Youngs Ltd., High-st., Stalham, Norfolk. *Surfacing work to paved areas:* Honington, Suffolk. Wirksworth Quarries Ltd., 286 Pentonville-rd., London, N1. *Sportsfield (preparation and landscaping) :* Lakenheath, Suffolk. Surfacing Maintenance Services Ltd., Durham-hse., 124 Old Christchurch-rd., Bournemouth, Hants. *Asbestos insulation to roofs:* Lyneham, Wilts. Clark & Fenn Ltd., 16 Old Town, London SW4. *Painting and decorating:* Chivenor, Barnstaple, Devon. William Herd & Co. Ltd., 95 Baker-st., London, W1. *Air conditioning system:* Il Kortin, Gozo Island, nr. Malta. Andrew Air conditioning Ltd., Woodbank-wks., Stockport, Cheshire. *Air conditioning services:* Handforth, Stockport, Cheshire. Benham & Sons Ltd., 66 Wigmore-st., London, W1. *Supply & installation diesel generating plant:* Horham, Suffolk. Polapone Ltd., PO Box No. 4, Derby.

(GD) LONDON (British Railways).—Contracts placed by London Midland Region:—Erection of shed offices and amenities at freight terminal, Watford; Leonard Fairclough Ltd., 3 Chapel-st., Adlington, Lancs. —Cleaning, painting and repairs to roof of Manchester Central Station; Wilscaf Ltd., Yarborough-hse., Huntingdon-rd., York.—Supply, fabrication and delivery of steelwork for Bridge No. 23 on Roade/Rugby (New) Line; Richards Structural Steel Co. Ltd., Leicester.—Hot water services and ventilation at Motive Power depot, Chester West; Ashwell & Nesbit Ltd., Manchester 13.

(GD) LONDON (British Railways).—Contracts placed by Eastern Region:—Cleaning and painting of buildings, structures and bridges between Phillip Lane bridge No. 1936 and Enfield Town station on the Enfield Line, Angel Road Junction and Edmonton Junction and Bury Street Junction and Cheshunt Junction on the Southbury Line; R. Ridd & Son (Contractors) Ltd., 153 Billet-

lane, Hornchurch, Essex.—Cleaning and painting of bridges between King's Cross and Finsbury Park stations; Arundel Painting Contractors & Co. Ltd., PO Box No. 1, Louth,, Lincs.—Cleaning and painting of ironwork and steelwork of bridges between Dronfield and Brightside (Nr. Sheffield); Arundel (Contractors) Ltd., 70 Harris-st., Bradford, Yorks.—Construction of platform extensions at London Fields and Cambridge Heath stations; Shephard, Hill & Co. Ltd., 25/27 Central-chbrs., Ealing Broadway, London, W5.—Provision and driving of sheet steel piles along North Soak Drain, between Crowle and Althorpe; Lomount Construction Ltd., Sackville-hse., 40 Piccadilly, London, W1.

(GD) LONDON (MoW).—Contracts placed for week ended July 16:—*Berkshire:* Erection of zone switch control, Basingstoke-rd., Reading; Y. J. Lovell (Bucks) Ltd., Marsham-la., Gerrards Cross, Bucks. *Devonshire:* Erection of motor transport workshop and garage at Post Office, Bideford; Staverton Contractors Ltd., Staverton Bridge, Mill, Totnes. *Kent:* Erection of assembly hall at Duke of York's sch., Dover; A. N. Anderson Ltd., 66 Victoria-st., London, SW1. *Lancashire:* Conversion of boiler to oil firing at Ministry of Labour wool disinfecting station, Love-la., Liverpool; Associated British Combustion Ltd., Portchester, Hants. *London:* Alterations at Wellington Museum, Apsley-hse., Piccadilly, W1; Dove Bros. Ltd., Cloudesley-pl., Islington, N1. — Builder's work, etc., at Whitehall District heating scheme, Phase 1; Higgs & Hill Ltd., Crown-wks., S. Lambeth-rd., SW8.—Improvement scheme at Hyde Park; Dove Bros. Ltd., Cloudesley-pl., Islington, N1.—Alterations at Patent Office, 25 Southampton-bldgs., WC2; Howe & White Ltd., 35 Manor-rd., Wallington, Surrey.—Installation of oil firing boiler plant at Somerset-hse., Strand, WC2; G. N. Haden & Sons Ltd., PO Box No. 14, 7/12 Tavistock-sq., WC1.—Additional work at Post Office, Faraday Building; Higgs & Hill Ltd., Crown-wks., S. Lambeth-rd., SW8. *Staffordshire:* Erection of Swinfen Hall, nr. Lichfield; Gee, Walker & Slater Ltd., Uttoxeter Old-rd., Derby, PO Box 42. *Worcestershire:* Erection of Post Office engineering depot at Hungary Hill, Stourbridge; J. Herbert & Smith (Kidderminster) Ltd., 5 George-st., Kidderminster.—Erection of sorting office at Post Office, Queensway, Halesowen; R. G. Horton Ltd., Delph-rd., Brierley Hill, Staffs.

(GD) LONDON (War Dept.).—Contracts placed for July 15:—*Anglesey* (Ty Croes): Building. Wm. Eaves & Co. Ltd., Blackpool. —Wood casements. Watkin Jones & Son Ltd., Bangor. *Berkshire* (Windsor): Building. J. Garrett & Son Ltd., London, SW12. *Cornwall* (Bodmin): Miscellaneous. J. Garrett & Son Ltd., Plymouth. *Devon* (Okehampton): Redecoration. T. H. Kenyon & Sons Ltd., London, W9. *Essex* (Colchester): Metal doors. Eclair Doors Ltd., Birmingham. *Hampshire* (Aldershot): Building. Davies & Rentowl (Aldershot) Ltd., St. Albans.—(Bordon): Hardstandings. A. J. Dunning & Sons (Weyhill) Ltd., Andover.—(Deepcut): Building. E. J. Logan (Putney) Ltd., London SW15. *Middlesex* (Wembley): Building. Frank R. Freeman Ltd., London, NW1. *Surrey* (Guildford): Miscellaneous. Sherfields (Farnham) Ltd., Farnham. *Wiltshire* (Bulford): Buildings. James & Crockerell Ltd., Durrington.—(Larkhill): Roadwork. F. Rendell & Sons Ltd., Devizes. *Worcestershire* (Norton Barracks): Redecoration. T. H. Kenyon & Sons Ltd., London, W9. *Yorkshire* (Bradford): Building. J. Totty & Sons, Bradford.

(GD) LONDON (Metropolitan Police).—Recent contracts placed:—External painting and repairs at Highbury Vale Police Station. W. T. Ricketts & Sons, Ltd., £733.—External painting, internal cleaning and redecorations at Brentford Police Station. W. J. Dickens Ltd., £768.—External painting and repairs and internal redecorations at Bushey Police Station. V. G. Clements (Contractors) Ltd., £881.

LUTON.—Erection of 470 houses at Lewsey Farm estate for TC. (A) John Laing & Son Ltd., £853,000.

MIDDLESBROUGH.—Erection of St. Mary's College (second stage) for EC. Architect is Thomas A. Crawford. (A) Hudson Brothers, Fidler-st., Middlesbrough, £104,256.

MIDDLESBROUGH. — Dismantling and disposal of plant and buildings of the former Normanby Ironworks. (A) George Cohen, Sons & Co. Ltd.

NEWBIGGIN.—Construction of new sea wall for UDC. R. T. James & Ptnrs., Clavering-pl., Newcastle-on-Tyne, constg. engrs. (A) Brims & Co. Ltd., Pandon-bldgs., City-rd., Newcastle-on-Tyne, £93,000.

NEWCASTLE-ON-TYNE. — Reconstruction of shop premises at 36-44 Scotswood-rd. for Messrs. H. C. Troldahl Ltd. E. M. Lawson, Barras-bldgs., Barras Bridge, Newcastle, constg. engrs. (A) Cussins (Contractors) Ltd., The Drive, Gosforth.

NORTHALLERTON.—Erection of swimming baths for War Memorial Baths Com. Mortimer & Ptnrs., ARIBA, Ainderby Hall, Northallerton, architects. (A) Walter Thompson (Contractors) Ltd., North End, Northallerton.

NOTTINGHAM.—Following for TC.—Three-storey block of flats and two garages at Robin Hood Chase. (A) H. & E. Loach (Builders) Ltd., Old Carlton, £22,456; 16 dwellings and 26 garages at Billborough. (3) W. Westerman Ltd., Chilworth, £25,390.

READING.—Extensions and alterations to St. Anne's RC prim. sch., Caversham. W. H. Saunders & Son, L/ARIBA, Southampton, architects. O. A. Wainwright & Ptnrs., quantity surveyors. (A) J. M. Jones & Sons Ltd., Maidenhead.—Extensions for the provision of sanitary units at St. Patrick's Hall of Residence for Reading University. Howell, Freeman & Batten, L/LRIBA, 17 Blagrave-st., Reading, architects. Henry Cooper & Sons Ltd. and H. Hamilton Turner & Son, quantity surveyors. (A) J. M. Jones & Sons Ltd., Maidenhead.

RUGBY.—16 two-storey flats at Featherbed-la. for BC. Quantities by Collins & Britton, 39 Bennetts Hill, Birmingham 2. (A) The Browning Construction Co. Ltd., 19 Hillmorton-rd., Rugby, £25,130.

ST. GERMAN'S. — Flood protection scheme (part 3) for The Great Ouse River Bd. (A) Sir Lindsay Parkinson & Co. Ltd., £2,212,000.

STOKESLEY.—Erection of:—(a) 16 bungalows at Willey Flatts estate, and (b) four bungalows at Stainton estate for RDC. (GD) G. L. Finch, Springfield-ave., Stockton-on-Tees, £18,700, and Homer & Son, Nut-la., Longlands, Middlesbrough, £5,081, respectively.

STAFFORD.—New College of Technology at Weston-rd. for TC. (A) Sir Lindsay Parkinson & Co. Ltd., London, £450,000.

SUNDERLAND.—Factory extensions for Ericsson Telephones Ltd. Newrick & Blackbell, 58 John-st., Sunderland, architects. (A) David Glen Ltd., Albert-rd., Jarrow, Co. Durham.

TYNEMOUTH.—Additions to St. Anselm's RC sec. mod. sch. Architect is David Brown, 10 Lambton-rd., Jesmond, Newcastle-on-Tyne. (A) Tate & Holmes, Benwell, Newcastle-on-Tyne £10,000.

WANDSWORTH.—Erection of a 16-storey office block at Putney for Collins & Collins & Rawlence. Guy Morgan Ptnrs., F/FRIBA, architects. Wakeman, Trower & Ptnrs., quantity surveyors. (A) Holland & Hannen & Cubitts (Great Britain) Ltd. Est. £300,000.

WARWICK.—Fixed price tenders for 24 houses, with roads and sewers, etc., at Leek Wootton, nr. Warwick, for UDC. Harry W. Weedon and Ptnrs., 45-47 Calthorpe-rd., Edgbaston, Birmingham 15, architects. (A) P. A. Hopkins Ltd., Tavistock-st., Leamington Spa, £45,108.

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

WALSALL
COUNTY BOROUGH.

HEALTH COMMITTEE.
ERECTION OF NEW OCCUPATION CENTRE AT PROFFITT-STREET, WALSALL.

FIXED-PRICE TENDERS are invited for the ERECTION OF A NEW OCCUPATION CENTRE at Profitt-street, Walsall.

Bills of Quantities and Forms of Tender can be obtained from the undersigned upon payment of a deposit of TWO GUINEAS which will be refunded upon receipt of a bona fide tender.

Tenders are to be returned in the endorsed envelope provided with the tender documents to arrive not later than MONDAY, 29th AUGUST, 1960.

The Council do not bind themselves to accept the lowest or any tender.

M. E. HABERSHON,
Borough Engineer and Surveyor.

Council House,
Walsall.
19th July, 1960.

GREENWICH
METROPOLITAN BOROUGH.

NEW BRANCH LIBRARY.
BROOK-LANE, KIDBROOKE, S.E.3.

Applications are invited from those willing to TENDER for the ERECTION OF A NEW BRANCH LIBRARY at Brook-lane, Kidbrooke, S.E.3.

Plans may be inspected and other particulars obtained at the office of the Borough Engineer and Surveyor at the Town Hall, Greenwich High-road, S.E.10.

Selected applicants will be informed by post and will be supplied with Bills of Quantities and other documents required to enable them to tender.

Tenderers will be required to sign, or to refuse to sign a certificate declaring that they are not parties to any scheme or arrangements with other tenderers in respect of the amount of or the adjustment of their Tender. The full wording of the certificate may be obtained from the undersigned.

Application must reach the Borough Engineer and Surveyor at the Town Hall by NOON on 30th AUGUST, 1960, and must include details of similar work undertaken recently.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
July, 1960.

ILFORD
BOROUGH.

MAYFIELD SECONDARY BOYS' SCHOOL: EXTENSION TO METALWORK ROOM.

TENDERS are invited for the ERECTION OF AN EXTENSION TO THE EXISTING METALWORK ROOM and the ERECTION OF TWO PARTITIONS IN THE DINING BLOCK at Mayfield Secondary Boys' School, Goodmayes-lane, Ilford.

Applications in writing for the form of Tender, Bills of Quantities and Drawings should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s. 0d. which will be returned on receipt of a bona fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Tenders sealed in the envelope provided with no mark of identification as to the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m. on TUESDAY, 23rd AUGUST, 1960. Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

The Corporation do not bind themselves to accept the lowest or any Tender.

PEMBROKESHIRE
COUNTY COUNCIL.

EDUCATION COMMITTEE.
PROPOSED NEW INFANTS' SCHOOL, PEMBROKE.

Recognised Building Contractors are invited to TENDER for the ERECTION OF A NEW INFANTS' SCHOOL at Golden-lane, Pembroke, designed to accommodate 120 pupils.

The building will consist of a SINGLE STOREY BLOCK together with surrounding SITE WORKS, etc. The general construction will be load bearing brickwork and a small section of steel framework with a proprietary precast concrete roof.

Contractors will be required to give proof that they are in a position to provide sufficient labour and staff in order to carry out this contract in an expeditious and workmanlike manner.

Applicants wishing to tender are asked to register their names with Lt. Col. Walter Barrett, M.B.E., A.R.I.B.A., County Architect, County Offices, Haverfordwest, before MONDAY, 8th AUGUST, 1960, when arrangements will be made to despatch all relevant documents.

Applications must be accompanied by a deposit of £2 2s. which will be returned on receipt of a bona fide Tender and all returnable documents.

The County Council do not bind themselves to accept the lowest or any Tender.

H. LOUIS UNDERWOOD,
Clerk of the County Council.

County Offices,
Haverfordwest.
21st July, 1960.

DAGENHAM
BOROUGH.

INTERNAL AND EXTERNAL DOORS.
LIMBOURNE-AVENUE ESTATE.

TENDERS are invited for SUPPLYING 1,614 INTERNAL AND EXTERNAL FLUSH DOORS, AND LEDGED AND BRACED DOORS, the majority of which are to B.S.S. sizes.

Specifications and forms of tender are obtainable from the Borough Engineer and Surveyor.

Tenders, in the official envelopes provided, must be returned to me by 12th AUGUST, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

NORTHAMPTONSHIRE
COUNTY COUNCIL.

TENDERS will be invited shortly for the FIRST THREE-CLASSROOM INSTALMENTS of the following primary schools :—

Corby Exeter (load bearing brickwork).

Wellingborough Croyland Hall Farm Estate (proprietary steel frame with traditional internal construction and finishes).

Contractors wishing to Tender for (a) ERECTION; (b) HEATING, DOMESTIC HOT AND COLD WATER INSTALLATIONS, ETC., or (c) ELECTRICAL INSTALLATION, are asked to notify the County Architect, County Hall, Northampton, by 15th AUGUST. From the names received the committee concerned will select firms to whom particulars should be sent.

J. ALAN TURNER,
Clerk of the County Council.

County Hall,
Northampton.

FARNBOROUGH
URBAN DISTRICT COUNCIL.

TO BUILDING CONTRACTORS.
"BAVENO."
45 FARNBOROUGH-ROAD.

TENDERS are invited for the ERECTION AND COMPLETION OF A THREE-STOREY BLOCK OF FLATS comprising 15 one-bedroom flats together with the CONVERSION OF AN EXISTING BUILDING TO PROVIDE COMMUNAL ROOMS, ETC., and LAYING OF PATHS, COURTS, ETC.

Contractors desirous of Tendering are requested to apply to the Council's Engineer and Surveyor, Municipal Offices, Alexandra-road, Farnborough, Hants, for the documents.

Forms of Tender, Specification and Bills of Quantities will be ready for issue on the 15th August, 1960.

The drawings can be inspected at the office of the Engineer and Surveyor, Municipal Offices, Alexandra-road, Farnborough, Hants, during normal office hours.

Tenders in the envelope provided, are to be forwarded to reach the undersigned not later than NOON on FRIDAY the 2nd SEPTEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

D. STUART JONES,
Clerk of the Council.

Town Hall,
Farnborough,
Hants.
18th July, 1960.

ROCHESTER CITY.

62 FLATS—TROY TOWN REDEVELOPMENT AREA.

TENDERS are invited for the ERECTION OF THE ABOVE-MENTIONED DWELLINGS. Conditions of Contract, Bills of Quantities and Form of Tender may be obtained from J. A. Peel, Esq., A.M.I.C.E., M.I.Mun.E., City Surveyor, 66 Maidstone-road, Rochester, on payment of a deposit of £3 3s., which will be refundable on the receipt of a bona fide Tender or on notification of inability to Tender, together with the return of the documents.

This Tender is to be a FIXED PRICE TENDER.

Tenders should be returned in the suitably endorsed envelope provided to the Town Clerk, Guildhall, Rochester, no later than 12 NOON 6th SEPTEMBER, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester.
18th July, 1960.

BIRMINGHAM CITY.

TO BUILDING CONTRACTORS.

Contract 704. EIGHT TWO-STOREY DWELLINGS, Glebe Farm-road, Stechford.

Contract G.18/75. 23 LOCK-UP GARAGES, Felstone-road, Kingstanding.

Contract G.18/92-97. 98 LOCK-UP GARAGES, Bartley-green, Harborne and Northfield Areas.

Contract G.18/111. 10 LOCK-UP GARAGES, Kingsbury-road, Erdington.

The House Building Committee invite Firm Price TENDERS for the ERECTION OF THE ABOVE.

Bills of Quantities and Forms of Tender will be forwarded on payment of £2 2s. 0d. for each contract at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 3rd August, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's office during normal working hours.

The deposits will be returned on receipt of bona fide Tenders or on notification of inability to Tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 NOON on FRIDAY, the 2nd SEPTEMBER, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

The Council House,
Birmingham, 1.
20th July, 1960.

EAST SUFFOLK
COUNTY COUNCIL.

STOWMARKET PRIMARY SCHOOL—ADDITIONS.

The Council propose to invite FIRM PRICE TENDERS from selected builders, for the ERECTION OF THE SECOND INSTALMENT, of some 4,500 square feet floor area, of Stowmarket Primary School.

Drawings, prepared under the direction of Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, between 9 a.m. and 4 p.m.

Building Contractors wishing to tender should submit their names to the County Architect, County Hall, Ipswich, before the 12th AUGUST, 1960. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 22nd AUGUST; builders not selected will be notified at the same time. Tenders are required by the 12th SEPTEMBER, 1960.

CROYDON
COUNTY BOROUGH.

NEW SWIMMING BATH.

Contractors who wish to TENDER for the ERECTION OF A NEW SWIMMING BATH on the Community Centre Site, Central-parade, New Addington, should apply to the Borough Engineer for Bills of Quantities. Closing date for Tenders 2nd SEPTEMBER, 1960.

E. TABERNER,
Town Clerk.

MIDDLESBROUGH
EDUCATION COMMITTEE.

Fixed Price TENDERS are invited from General Contractors for the ERECTION OF EXTENSIONS TO THE STAINSBY SECONDARY SCHOOLS including NEW BUILDINGS OF APPROXIMATELY 8,500 SQUARE FEET WITH OTHER ALTERATIONS AND ANCILLARY WORKS.

Bills of Quantities will be available about the 28th JULY, 1960.

Applications, accompanied by a deposit of £5 5s. 0d., returnable on receipt of a bona fide Tender, should be made to the Director of Education, Education Offices, Middlesbrough.

Tenders to be submitted to the Town Clerk by 9 a.m. on FRIDAY, 3rd SEPTEMBER, 1960.

FARNBOROUGH
URBAN DISTRICT COUNCIL.

TO ELECTRICAL CONTRACTORS.

TENDERS are invited for the INSTALLATION OF 218 POWER POINTS TOGETHER WITH OTHER INCIDENTAL WORK IN 48 DWELLINGS on Knellwood Estate.

Specification, Form of Tender, etc., can be obtained on application to the Council's Engineer and Surveyor, Municipal Offices, Alexandra-road, Farnborough, Hants.

Preference will be given to Firms whose names appear in the current roll of approved Electrical Installation Contractors.

The latest date for receipt of Tenders will be FIRST POST on THURSDAY, 1st SEPTEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

D. STUART JONES,
Clerk of the Council.

Town Hall,
Farnborough,
Hants.
18th July, 1960.

MAIDENHEAD.
BOROUGH.

CONTRACT 7A.

The Council invites fixed price TENDERS for the ERECTION OF A PAIR OF HOUSES AND GARAGES, TOGETHER WITH ALL NECESSARY DRAINAGE AND SITEWORKS.

Bills of Quantities, Drawing and Form of Tender may be obtained from and additional Drawings and Conditions of Contract may be seen at the office of the Borough Engineer and Surveyor, 14 Craufurd-rise, Maidenhead, on payment of Two Guineas deposit which will be refunded on receipt of a bona fide Tender and the return of all documents.

Tenders on the prescribed form and in plain sealed envelopes (provided) endorsed "Contract 7A" and bearing no mark or indication of the sender must be delivered to me not later than THURSDAY, 1st SEPTEMBER, 1960. Priced Bills of Quantities and Drawing must be returned in separate envelopes (provided) to the office of the Borough Engineer and Surveyor by the same date. Bills of Quantities will be returned to unsuccessful Tenderers.

The Council does not bind itself to accept the lowest or any Tender.

STANLEY PLATT,
Town Clerk.

Guildhall,
Maidenhead,
Berks.
July, 1960.

ESSEX
COUNTY COUNCIL.

DOUCECROFT HOSTEL, KELVEDON.
ASSISTANT WARDEN'S HOUSE.

Contractors wishing to submit a firm price TENDER for the ERECTION C THE ABOVE should forward their names from which a panel will be chosen and provided with Tender documents.

The work will be in traditional construction. Estimated cost, £2,500.

Applications to reach the undersigned not later than SATURDAY, 6th AUGUST, 1960.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford,
Essex.

WEYMOUTH & MELCOMBE REGIS BOROUGH

The Corporation proposes to invite firm price TENDERS for the ERECTION OF A BRANCH LIBRARY at Wyke Regis, Dorset, and are preparing a list of selected contractors. The form of Contract will be the R.I.B.A. Standard form of Contract without Quantities.

Contractors desirous of being included in this list are invited to apply to the undersigned not later than MONDAY, 8th AUGUST, 1960.

E. J. JONES,
Town Clerk.

Town Clerk's Office,
Weymouth.
July, 1960.

SMETHWICK
COUNTY BOROUGH.

TO BUILDERS AND CONTRACTORS.
WARLEY HOUSE, ABBEY-ROAD.

The Housing Committee invite TENDERS for the ERECTION OF 12 TWO-BEDROOM MAISONETTES.

Applications for Bills of Quantities should be made in writing to the Borough Engineer and Surveyor, Council House, Smethwick, by the 10th AUGUST, 1960, accompanied by a crossed cheque for £2 2s. made payable to the "Borough Treasurer, Smethwick." The amount will be refunded following receipt of a bona fide Tender.

Tenders on the form provided and enclosed in the official envelopes must be delivered to the Town Clerk not later than 10 a.m. on FRIDAY, 9th SEPTEMBER, 1960.

The Corporation is not bound to accept the lowest or any Tender.

E. L. TWYCROSS,
Town Clerk.

Council House,
Smethwick, 40.

PORTSMOUTH CITY.

TENDERS, based on Bill of Quantities, are invited for REMODELLING OF D FLOOR AS REORGANISED PHARMACY DEPARTMENT, College of Technology.

Contractors desirous of Tendering should apply for documents to the City Architect, 1 Western-parade, Portsmouth, not later than 10th AUGUST, 1960, enclosing a deposit of £1, which will be refunded on receipt of a bona fide Tender or the return of all the documents WITHIN THREE DAYS.

The Council do not bind themselves to accept the lowest or any Tender. It is a condition of Tendering that the Contractor shall, at the date of his Tender, have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous 1st January.

V. BLANCHARD,
Town Clerk.

HORNSEY
BOROUGH.

CAMPSBOURNE REDEVELOPMENT AREA STAGE IV.
HOUSING SCHEME NO. 62.

TENDERS are invited for the ERECTION OF 53 FLATS AND MAISONETTES IN 4 BLOCKS in Myddelton-road and Campsbourne-road, Hornsey, N.8.

Particulars and Form of Tender from the Borough Engineer and Surveyor, Town Hall, Hornsey, N.8.

Applications for Tender documents to be received by NOON on FRIDAY, the 12th AUGUST, 1960. Tenders to be submitted by NOON on MONDAY, the 26th SEPTEMBER, 1960.

W. B. MURGATROYD,
Town Clerk.

WREXHAM
BOROUGH.

FIXED PRICE TENDERS are invited for the following:—

(a) DEMOLITION OF 91 HOUSES within the Borough.

(b) RESTORATION OF STONEWORK to the Cemetery Chapel.

Application for details, Tender Forms and Specification to Borough Engineer and Surveyor, 31 Chester Street, Wrexham, enclosing a deposit of £1 1s. for each contract refundable on receipt of a bona fide Tender.

Closing date for receipt of Tenders—12 NOON, FRIDAY, 12th AUGUST, 1960.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
July, 1960.

SURREY
COUNTY COUNCIL.

TENDERS FOR ERECTION OF EXTENSION TO ESHER, HINCHLEY WOOD COUNTY PRIMARY SCHOOL.

The work consists of the ERECTION in permanent construction of a SINGLE-STOREY EXTENSION comprising TWO CLASSROOMS WITH LAVATORY BLOCK, and site works.

Contractors wishing to tender should apply to The County Architect, County Hall, Kingston-upon-Thames, by 4th AUGUST, 1960.

DURHAM
COUNTY COUNCIL.

TENDERS invited:—

Hetton-le-Hole Branch Library—ADAPTATION OF FORMER HETTON-LE-HOLE FURTHER EDUCATION CENTRE.

Application for further details to County Architect, South-street, Durham, not later than 10th AUGUST, 1960.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

LEICESTER
ADMINISTRATIVE COUNTY.

Builders and Contractors with adequate facilities desirous of being considered in inclusion in a selected list of contractors to TENDER on a FIRM PRICE BASIS for the ERECTION OF RESIDENTIAL HOSTELS at Loughborough College to submit names to County Architect, 123 London-road, Leicester, by 15th AUGUST. Bills of Quantities available 26th AUGUST. Tenders to be returned not later than 12 NOON, MONDAY, 19th SEPTEMBER.

BERKSHIRE
ROYAL COUNTY.

TENDERS are invited for the ERECTION OF A LIBRARY in traditional construction at The Cloisters, Wantage. Applications for Bills of Quantities and Forms of Tender must be made to the County Architect, Wilton House, Parkside-road, Reading, by the 8th AUGUST, 1960, enclosing a deposit of £2 2s. which will be returned on receipt of a bona fide Tender not subsequently withdrawn.

Tenders must be returned in the envelope provided by NOON on TUESDAY, 20th SEPTEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

CONISBROUGH
URBAN DISTRICT COUNCIL.

AMENDED ADVERTISEMENT.
ERECTION OF ONE COMMUNITY HALL IN HICKLETON-STREET, DENABY MAIN.

TENDERS are invited for the ERECTION AND COMPLETION INITIALLY OF ONE "Unity" type community hall.

Specifications and contract documents may be obtained, and drawings and conditions of contract viewed, on application to C. Urch, Esq., Engineer and Surveyor, Council Offices, 5 High-street, Conisbrough, during normal office hours.

Applications should be accompanied by a cheque for £2 made payable to the Conisbrough U.D.C., which will be refunded on receipt of a bona fide tender not subsequently withdrawn, and on return of all documents issued.

Tenders in plain sealed envelopes and endorsed "Community Hall," to be delivered to the undersigned not later than 12 noon on the 19th AUGUST, 1960.

R. F. EDWARDSON,
Clerk of the Council.

Council Offices,
Low-road,
Conisbrough,
Doncaster.
25th July, 1960.

BEDFORD
BOROUGH.

7 SHOPS, 3 FLATS AND 3 MAISONETTES, BRICKHILL.

TENDERS are invited for the ERECTION OF THE ABOVE. The period for tendering will be a minimum of three weeks.

Applications for Tender documents should be made not later than 12th AUGUST, 1960, to F. W. Dawkes, Esq., Borough Engineer and Surveyor, Newnham House, Horne-lane, Bedford, accompanied by a deposit of £3 3s. which is returnable on receipt of a bona fide Tender and not subsequently withdrawn.

The Corporation does not bind itself to accept the lowest or any Tender.

G. F. SIMMONDS,
Town Clerk.

PUBLIC APPOINTMENTS

DAGENHAM
BOROUGH.

ARCHITECTS.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department:—

(a) SENIOR ASSISTANT ARCHITECTS (2). Grade A.P.T. V (£1,220-£1,375 plus £45 London Weighting).

(b) ARCHITECTURAL LEARNER (1). Grade GD/A.P.T. I (£305-£765 plus £15-£40 London Weighting).

Applicants for posts (a), which rank next in seniority to the Chief Architect, must be Associates R.I.B.A. and suitably experienced.

Applicants for (b) will be required to possess a General Certificate of Education in at least five subjects at "O" level including English Language and Mathematics.

The Council have an interesting building programme including new schools, housing, redevelopment schemes, covered swimming bath, general municipal buildings, etc.

Housing accommodation may be made available.

Application forms, etc., from the Borough Engineer and Surveyor, to whom they must be returned by MONDAY, 29th AUGUST, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

DAGENHAM
BOROUGH.

CLERK OF WORKS.

Required for approximately two years to supervise erection of 190 dwellings, four shops and 47 garages at Canvey Island, Essex. Salary £850 per annum. Candidates with experience of supervising works of this nature should apply to the Borough Engineer and Surveyor for form of application and further particulars.

Closing date 22nd AUGUST, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

EAST HAM
COUNTY BOROUGH.

TECHNICAL ASSISTANT,
HOUSING DEPARTMENT.

Applications are invited from persons experienced in building construction and housing maintenance who are capable of preparing specifications of improvements and conversions of houses. Salary in accordance with Grade A.P.T. I (£610 x £30 (4) x £35 (1)—£765) plus London Weighting.

Further particulars and form of application (returnable by 17th AUGUST, 1960) from the Town Clerk, Town Hall, East Ham, E.6.

WREXHAM
BOROUGH.

Applications are invited for the following appointments:—

(a) TWO ENGINEERING ASSISTANTS, salary A.P.T. Grade IV (range £1,065-£1,220 per annum).

(b) TWO ARCHITECTURAL ASSISTANTS, salary Special Grade (range £785-£1,070 per annum).

Candidates should have passed the final examination of the Institution of Civil or Municipal Engineers or of the R.I.B.A., as appropriate, and have had experience with a Municipal Authority.

Casual car allowance will be paid on the instructions of the Borough Surveyor and the Council will consider payment of removal expenses.

Housing accommodation provided if required.

Forms of application and particulars of duties and works in hand obtainable from the Borough Surveyor, 31 Chester-street, Wrexham.

Applications to be returned to the undersigned by not later than 12 NOON 22nd AUGUST, 1960.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
July, 1960.

NOTTINGHAM CITY
EDUCATION COMMITTEE.

COLLEGE OF ART AND CRAFTS.
PRINCIPAL: Robert Lyon, D.A. (Glas.), F.R.S.A.

HEAD OF THE SCHOOL OF ARCHITECTURE:
D. W. Notley, B.Arch.(Hons.), L'pool, A.R.I.B.A.

Applications are invited for the post of two full-time STUDIO MASTERS in the School of Architecture which is recognised for exemption from the R.I.B.A. Final Examination. Duties to commence on the 1st SEPTEMBER, 1960, or nearest date possible thereafter. Candidates should be Architects, preferably holding the degree or diploma of a recognised school, and should have had a minimum of three years' practical architectural experience after registration. Salary to be in accordance with the Burnham Technical Scale for Grade B Assistants, i.e. £700 x £27 10s.-£1,150 (men) and £630 x £22-£920, with equal pay increments (women).

Application forms and further particulars from the Principal, College of Art and Crafts, Waverley-street, Nottingham, to whom the forms should be returned within 10 days of the publication of the advertisement.

W. G. JACKSON,
Director of Education.

Education Office,
Exchange Buildings,
Smithy-row,
Nottingham.

HORNCHURCH
URBAN DISTRICT COUNCIL

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of TEMPORARY TECHNICAL ASSISTANT, Architectural Section, Grade A.P.T. II (£765-£880 p.a.) and a plusage equivalent to the current London "weighting."

Applicants must be competent Building Surveyors with experience of maintenance work to houses and all forms of public buildings, including inspections, preparation of specifications, estimates and supervision of works, including redecorations.

Preference will be given to applicants who have passed the Intermediate Examination of the R.I.C.S., hold the R.I.B.A. Building Surveyor's Diploma, or have the appropriate Higher National, City and Guild, or Institute of Builders Certificate in Building.

Forms of application, returnable by SATURDAY, the 13th AUGUST, 1960, may be obtained from the undersigned.

F. L. COX,
Clerk of the Council.

Pointing the way...
TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

REX

A complete range . . . 3½ f, 5E, 7E, 7S, 10S, 12S and 14S with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models. Illustrated literature and prices on request

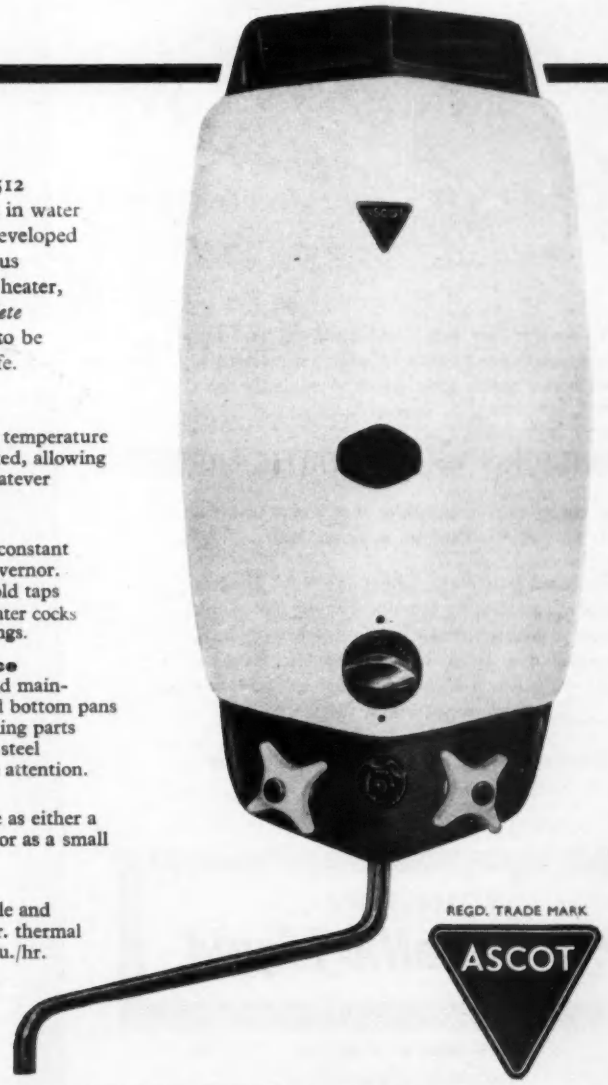
BLAW KNOX LIMITED Box No 113
90/94 Brompton Road, London S.W.3. Telephone: KENsington 5151

BK 579

Introducing the

Ascot De Luxe G512

the new water heater giving complete control



The New Ascot De Luxe type G512 represents the latest developments in water heater design and performance. Developed by Ascot for use as an instantaneous multipoint and single-point water heater, this Ascot De Luxe with its *complete* controls for gas and water is sure to be popular with the modern housewife. Here are some of its features:

Temperature Selector
A temperature selector controlling a temperature rise between 45°-100°F is incorporated, allowing the housewife to choose water at whatever heat she wants.

Gas and Water Controls
The Ascot De Luxe is fitted with a constant volume gas governor and a water governor. External controls include hot and cold taps and a rotary gas control. Gas and water cocks are an integral part of the heater linings.

Ease of Fixing and Maintenance
The De Luxe ensures easy fixing and maintenance. The outer case and top and bottom pans are quickly detachable, and all working parts are readily accessible. The stainless steel Ascot 'flat flame' burner needs little attention.

Versatility
The De Luxe is designed to operate as either a single point heater with a 9" spout, or as a small multipoint heater.

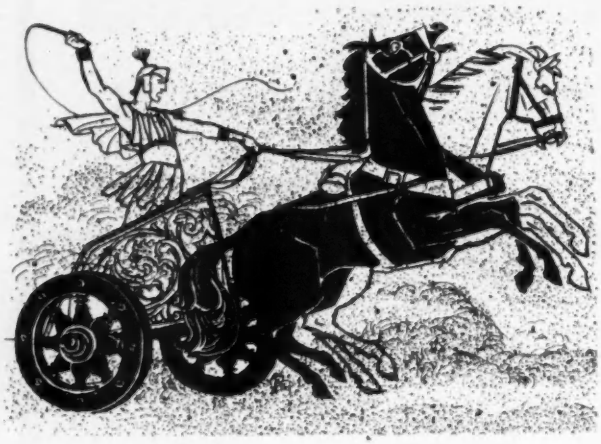
Performance
The De Luxe is 23¾" high, 10¼" wide and 8 5/16" deep and gives 30,000 B.t.u./hr. thermal output from an input of 40,000 B.t.u./hr. producing 0.5 g.p.m. raised 100°F, 0.625 g.p.m. raised 80°F, and pro rata. Pilot consumption is 250 B.t.u./hr.

For full details of the Ascot De Luxe type G512 write to
ASCOT GAS WATER HEATERS LIMITED, 255 NORTH CIRCULAR ROAD, NEASDEN, N.W.10

REGD. TRADE MARK
ASCOT

A Radiation Company

Dust Beneath The Chariot Wheels?



No wonder they didn't last. Dust can have just as dangerous and costly an effect on machinery, plant and health these days. Fortunately there is now

LILLINGTON'S No. 5 METALLIC LIQUID

to render any factory floor dust free over night for less than 1d. a square foot.

Scientifically prepared, Lillington's No. 5 Metallic Liquid possesses far more penetrative power and gives longer protection than any other product. Applied over night, it sinks deep into concrete and ensures an exceptionally hard and dust-free surface ready for use in the morning.

Write today for Booklet 'D' which gives full details

LILLINGTON'S

Nº 5 Metallic Liquid

PRICE FROM 7/- A GALLON
(according to quantity)

GEORGE LILLINGTON & CO. LTD.

Willow Lane, Mitcham, Surrey. Telephone: Mitcham 1066
For Scotland: 42 High Street, Greenock. Telephone: Greenock 20175

MODERN BUILDERS USE A
205T "RECORD"
TOWER CRANE

HAVE YOU GOT YOURS?
Look at these star features

- ★ LOW COST
- ★ FULLY MOBILE (can be lorry mounted)
- ★ SELF ERECTING (up in 10 minutes)
- ★ REMOTE CONTROLLED
- ★ THREE SAFETY DEVICES
- ★ IMMEDIATE DELIVERY
- ★ FULL STOCK OF SPARES
- ★ MAXIMUM S.W.L. 10 CWT.
- ★ MAXIMUM HEIGHT 66 FEET.

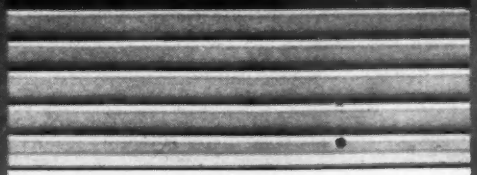
For further details:
TELEPHONE ELGar 1441 or write to the MAIN U.K. DISTRIBUTORS

DELTA (PLANT) LTD. 10, CORONATION ROAD, PARK ROYAL · LONDON · N.W.10.

Cranes of larger capacity also available

SO YOU'VE MADE AN OPENING

Drive a bus through it —— or pass a cocktail through it . . .



. . . it's an opening for

Thornborough
roller shutters

In any size, hand or electrically operated, Thornborough roller shutters will fit your opening. Send for literature B on Thornborough roller shutters in steel, wood or aluminium.

THORNBOROUGH & SON (MANCHESTER) LTD
St. Vincent Street, Ancoats, Manchester 4
Telephone: Collyhurst 2887
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Representative in Northern Ireland:
Oswald McMullen, 6 Sussex Place, Belfast. Telephone: 29126

HAYES & HARLINGTON
U.D.C.

BUILDER'S CLERK required. Salary within Clerical Division, Grade II, i.e., £670-£765 per annum, plus London "Weighting" up to 20 years £15 per annum, 21-25 years £25 per annum, 26 years and over £40 per annum. Candidates should possess a good knowledge of building construction and maintenance work and have considerable experience in a similar capacity, with a Local Authority or a Building Contractor. Experience in measuring up for and the operation of Incentive Bonus Schemes an advantage. The working hours are those prevailing in the building industry, i.e. at present 44 hours per week. The Council is unable to assist with the provision of housing accommodation.

Form of application and further particulars and conditions of service obtainable from the undersigned, which when completed must be returned by 8th AUGUST, 1960.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes,
Middlesex.

RADNORSHIRE
COUNTY COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following permanent appointments on the established staff of the County Architect's Department:

THREE ARCHITECTURAL ASSISTANTS. Salary Grade A.P.T. II (£765-£880 p.a.).

The Council have a varied and interesting building programme on hand including new schools, police houses and old people's homes.

The appointments will be subject to the National Scheme of Conditions of Service; to the Local Government Superannuation Acts and to termination by one month's notice in writing by either party.

Applications stating age, qualifications and experience with the names and addresses of two persons to whom reference may be made must be received by the undersigned not later than the 16th AUGUST, 1960.

D. C. S. LANE,
Clerk of the Council.

County Hall,
Llandrindod Wells,
Radnorshire.

LONDON ELECTRICITY
BOARD.

ARCHITECTURAL ASSISTANTS.

Applications are invited for the above positions in the Chief Engineer's Architect's Section at Lesco House, Stamford-street, S.E.1.

Applicants should be studying for, or have passed, the Intermediate Examination of the R.I.B.A., be capable draughtsmen and have had several years' experience in an architect's office.

Pending determination as to the grading of the posts within Schedule "B" of the National Joint Board Agreement, the salary will be in the provisional range £695 per annum rising to £925 per annum inclusive of London Allowance.

Application form obtainable from the Personnel Officer, 46 New Broad-street, E.C.2, to be returned completed within 14 days of the publication date of this notice. Please quote ref.: PER.V/3033/B.

WALTHAM HOLY CROSS
URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT
for Capital Works

Applications are invited for an ARCHITECTURAL ASSISTANT in the Department of the Engineer and Surveyor. Preference will be given to candidates with housing experience.

The salary will be within the National Scale—Special Grade (£785 to £1,070), plus London Weighting; commencing salary according to qualifications and experience. Applicants must be Associate Members of the R.I.B.A. and/or Registered Architects.

The appointment will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Acts, and to one month's notice on either side. The successful applicant will be required to pass a medical examination.

Applications, stating age, with full particulars of qualifications and experience, together with the names and addresses of three persons to whom reference may be made, should be sent to the undersigned. Applicants should disclose any relationship to a member or senior officer of the Council. Canvassing will disqualify.

ROLAND E. SMITH,
Clerk of the Council.

Town Hal',
Waltham Abbey,
Essex.

CHESTER CITY.

DEPARTMENT OF CITY ENGINEER.

Applications are invited for the appointment of ARCHITECTURAL DRAUGHTSMAN. Salary Miscellaneous Grade V, £650-£715 per annum. Candidates should be able draughtsmen with experience of building construction. Applications, enclosing copies of two recent testimonials, should reach the City Engineer, 49 Northgate-street, Chester, by FRIDAY, the 5th AUGUST, 1960.

WORCESTERSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the positions of:

SENIOR ASSISTANT ARCHITECTS, Grade IV (£1,065-£1,220).

ARCHITECTURAL ASSISTANTS, Grade III (£880-£1,065).

ASSISTANT ARCHITECTS, Special Grade (£785-£1,070).

HEATING ENGINEERING ASSISTANT, Grade II (£765-£880).

The Senior Architects should be qualified members of the R.I.B.A. and should preferably have had some experience of Education work, though this is not essential.

The Assistant Architects are required for Education, Police, Health and Fire Brigade projects of a large and varied nature. Previous experience of these types of contracts is not necessary, but the applicants should have an architectural training, a good knowledge of building construction and practice and be reliable draughtsmen.

The Heating Engineering Assistant is required for work in connection with general fuel economy in County buildings in conjunction with N.I.F.E.S. and will be responsible for the general maintenance of all types of heating equipment, instructing caretakers on operation of it and issuing orders to contractors for necessary repairs, etc. He may also prepare simple drawings and specifications for small heating systems and conversions. This position will give interesting and varied work and experience which could lead to future promotion.

The County Council has a certain amount of housing accommodation for staff and the successful candidates may apply for this as it is available. The Council also makes some allowance towards necessary removal expenses to married applicants.

A five-day week is in operation.

Forms of application may be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14 Castle-street, Worcester (B.103).

TOTTENHAM
BOROUGH.

Applications are invited for the established post of

GENERAL FOREMAN

for new building works. At the present time, construction of 126 multi-storey flats on the Tewkesbury Estate is in progress.

Salary, A.P.T. Grade II, £765 to £880 per annum plus £25 or £40 p.a. London Weighting allowance according to age.

Applicants must have a thorough knowledge of all branches of the building trade and experience in the organisation of work and handling of labour in the capacity of General Foreman. He will be directly responsible to the Building Manager.

Application form and Conditions of Appointment from Borough Engineer (B), Town Hall, N.15, to whom applications must be delivered not later than WEDNESDAY, 10th AUGUST, 1960.

QUANTITY SURVEYING ASSISTANT

(Grade IV) Required by Ministry of Housing and Local Government to work under experienced quantity surveying staff engaged on interesting programme of research and development. Duties include Working-up and analysis of bills of quantities. Position offers excellent experience for keen young men willing to learn this increasingly important branch of the profession. Some previous Working-up experience desirable. London salary £565 (age 25) rising to £772 (increases to this scale are being currently authorised). Five-day week. Write, giving details of experience and training, to Manager (P.E. 2251), Ministry of Labour, P. & E. Register, Atlantic House, Farringdon-street, London, E.C.4.

WELSH COLLEGE
OF ADVANCED TECHNOLOGY.
Cathays Park, Cardiff.
(Associated with the University of Wales.)

WELSH SCHOOL OF ARCHITECTURE.

Applications are invited for the post of TEMPORARY ASSISTANT LECTURER AND STUDIO INSTRUCTOR in the Welsh School of Architecture, a department of the College. Candidates should have been trained in a "Recognised" School of Architecture, be Associates of the R.I.B.A., and have had approximately three years' post-academic practical professional experience.

The salary will be in accordance with the Burnham Technical Scale for Assistants, Grade "B," £700 x £27 10s. 0d.-£1,150 (men), plus allowances for degree (or degree equivalent) and training. Allowance will be made in placing on the scale for previous teaching or professional experience, and for persons with the qualifications and experience stated above the minimum commencing salary will be £962 10s. 0d. per annum.

ROBERT E. PRESSWOOD,
Clerk to the Governors.

City Hall,
Cardiff.

WEST BROMWICH
COUNTY BOROUGH.

Applications are invited for the following appointments:

SENIOR ASSISTANT ARCHITECT, A.P.T. IV (£1,065 to £1,220 per annum).

ARCHITECTURAL ASSISTANTS, A.P.T. I (£610 to £765 per annum).

Applications stating age, qualifications and experience, together with the names and addresses of two referees, should be sent to the undersigned by the 10th AUGUST, 1960.

W. H. GREENWOOD,
Borough Engineer and Surveyor.

Town Hall,
West Bromwich.

CWMBRAN
DEVELOPMENT CORPORATION.

APPOINTMENT OF ASSISTANT ARCHITECTS.

Applications are invited for the following superannuable vacancies in my Department:—

(a) One ASSISTANT ARCHITECT, Grade IV (£1,065-£1,220).

(b) One ASSISTANT ARCHITECT, Grade II/III (£765-£1,065).

Candidates for post (a) should be Associates of the R.I.B.A. with suitable office experience particularly in house design, construction and layout.

For post (b) applicants should either have passed the Intermediate Examination of the R.I.B.A. and had some office experience or be graduate architects who may have recently completed their training.

Housing accommodation will be made available to the successful applicants if needed.

Applications, stating age, experience, details of present and former employment (together with applicable salaries), and the names and addresses of two referees, must reach the undesigned by FIRST POST on 15th AUGUST, 1960.

J. C. P. WEST,
A.R.I.B.A., M.T.P.I.,
Chief Architect.

Victoria-street,
Cwmbran, Mon.

WARWICKSHIRE
COUNTY COUNCIL.

ARCHITECTS' DEPARTMENT.

Applications are invited for the following appointments:—

(A) ARCHITECTS Special Grade (£785-£1,070).

Applications are invited from architects who have passed Parts I and II of the R.I.B.A. final or special examination or their equivalent at one of the recognised schools of architecture. The successful applicants will work in groups on large projects, and an opportunity will be given to men with enthusiasm and ability to design and carry out projects under a group architect.

(B) ARCHITECTURAL ASSISTANTS, Grade A.P.T. II (£765-£880).

Vacancies exist for assistants who are up to intermediate R.I.B.A. standard and who require experience in a variety of interesting projects.

The commencing salary can be within the grade according to ability and experience. Five-day week worked. The Council have schemes for the payment of removal expenses and a lodging allowance to married officers. Application forms and full conditions applicable to the appointments can be obtained from Eric Davies, F.R.I.B.A., A.M.T.P.I., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.
July, 1960.

COLCHESTER
BOROUGH.

APPOINTMENT OF BOROUGH ARCHITECT.

Applications are invited for the above appointment. The salary will be £1,655 x £70 (2) and £65 (2) to £1,925 per annum and the terms and conditions of the J.N.C. for Chief Officers of Local Authorities will apply. Car allowance.

Further particulars may be obtained from the undersigned. Closing date 16th SEPTEMBER.

N. CATCHPOLE,
Town Clerk.

Town Hall,
Colchester.
July, 1960.

HUNTINGDONSHIRE
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ARCHITECTURAL ASSISTANT, Special Grade (£785-£1,070).

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£765-£880).

The persons appointed will become members of small architectural teams engaged in projects of varying size. It is desired that the persons appointed shall be keenly interested in architecture with an up-to-date approach to both planning and design.

Application forms and further particulars may be obtained from the County Architect, County Buildings, Huntingdon and completed forms should be returned to the undersigned by FRIDAY, 12th AUGUST, 1960.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.

BUILDING CLERKS OF WORKS

are required by

MINISTRY OF WORKS in ENGLAND and WALES

London commencing salary normally £772 per annum, aged 28 or over, rising to £900 after four years, Outside London slightly less. Exceptionally well-qualified men may be paid a higher commencing salary. Prospects of promotion to posts with salaries of £1,065 and above.

Five-day week. 3½ weeks' annual leave. Opportunities for permanent posts with a non-contributory pension scheme and of service overseas.

Applicants must possess the O.N.C. Building, or a Final City and Guilds Certificate in a craft, or an equivalent qualification, and have had at least three years' supervisory experience on large-scale building sites.

APPLICATIONS:—send postcard for further details and application form to:—

Chief Works Engineer
Ministry of Works,
Room 205, Cleland House,
Page Street,
London, S.W.1.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of LAND SURVEYORS AND VALUERS within the salary grades as below:—

A.P.T. V, £1,220 to £1,375 p.a. (2).
A.P.T. IV, £1,065 to £1,220 p.a. (1).
Special Class, £785 to £1,070 p.a. (1).

Commencing salary according to qualifications and experience.

Applicants must be Associate Members of the Royal Institution of Chartered Surveyors or equivalent, and be experienced in the valuation of, negotiation for, and the selection and acquisition of land and property for all purposes, including the preparation of surveys.

Local Government experience is not essential.

Application forms obtainable from the County Architect, P.O. Box 26, County Hall, Preston, to be returned by 12th AUGUST, 1960, quoting Ref. A/B.

EASTERN REGIONAL
HOSPITAL BOARD, SCOTLAND.

Applications are invited for the following posts:

(a) ASSISTANT ARCHITECT, £905 to £1,310.

(b) ARCHITECTURAL ASSISTANT, £625 to £900.

Applicants for post (a) must be Registered Architects by examination preferably having some experience of the design and construction of modern public buildings.

Applicants for post (b) must be of R.I.B.A. Intermediate standard with some practical experience.

Starting salaries according to age and experience.

Applications stating age, training, qualifications, past and present appointments, experience and the names and addresses of three referees should be sent to The Secretary, Eastern Regional Hospital Board, Vernonholme, Riverside-drive, Dundee, not later than 16th AUGUST.

CUMBERLAND
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT COUNTY ARCHITECT (DESIGN) at a salary within J.N.C. Scale A (£1,260 x £50(2) x £30-£1,390). Essential User Grade C travelling allowance. Housing accommodation is available.

Applicants must be A.R.I.B.A.—this is an excellent opportunity for a young Architect with a flair for design.

Further details and application forms, to be returned not later than MONDAY, 22nd AUGUST, 1960, may be obtained from the Acting County Architect, 15 Portland Square, Carlisle. The successful applicant will be required to take up his duties as soon as possible.

G. N. C. SWIFT,
Clerk of the County Council.

Company Meeting

BRITISH URALITE LIMITED

Substantially Improved Results

Increasing Demand for Products

The thirty-second annual ordinary general meeting of British Uralite Limited was held on July 26 at Gravesend, Mr. George V. Parker (the chairman) presiding.

The following is an extract from his circulated statement:

The Net Profit before Taxation for the year ending March, 1959, was £60,466, for the year now under review it is very nearly double at £117,550.

There is a great improvement in the liquid position with net Current Assets at £445,062 against Current Liabilities, including provision for Taxation of £208,046. The first repayment of £20,000 on our Unsecured Loan Stock due to be made during the year under review has been made, and the balance will be repaid during each of the succeeding four years. On Trade Accounts we owe £150,844 and Debtors due to us are £234,477. There is a decrease in Stocks and Work-in-Progress from £196,571 to £152,182.

Strong and Improving Position

The position is strong and improving. Competition has been most keen and our success is largely due to the excellence of our products, service to our customers and good team work by all concerned.

On these satisfactory results your Directors recommend a Dividend of 12½ per cent. There is an increasing demand for our products and we have recently booked an order in excess of £500,000 from Richard Thomas and Baldwins for their new giant steel works at Newport, probably the largest sheeting order ever placed, and from the general state of our Order Book I foresee another jump ahead both in turnover and profit.

Divisional Activities

The Cellactite Company Limited has made reasonable progress during the year though more business could have been booked had the supply of sheet steel been more plentiful. We continue to suffer to some extent by the number of fires that occur where other forms of roofing and cladding material containing bitumen have contributed to the spread of the fire, but through our propaganda work we at last seem to be succeeding in bringing home the fact to the Engineering and Architectural professions that it is possible to incorporate bitumen in a roofing material in such a way that if a fire occurs the bitumen in the Cellactite sheet does nothing to contribute to the spread of fire. In fact, in the case of the recent fire at a Glasgow Whisky Warehouse, it is generally acknowledged that Cellactite sheeting acted as a barrier to the spread of the fire to other adjacent buildings.

Cellactite is now available in a great variety of colours and the introduction of the Pillar Panel has made it possible for Architects to give what would otherwise be dull industrial buildings a really attractive appearance.

Kimolo Brick and Block Department

Your Board has decided to discontinue the production of Kimolo Bricks and to concentrate on the development and production of a featherweight Moler Partition Block which, because of its extreme light weight should find a ready demand for partition walls in the construction of multi-storey buildings.

The Urastone Company Limited has again increased its turnover of asbestos cement flue pipes and fittings and the 'Twinwall' flue pipes have been very well accepted by the Trade.

The Company is still being most successful in obtaining many large contracts for asbestos ducting to be fixed in the new laboratories of Universities, Colleges and Research Laboratories of large industrial firms.

During the last year we have added to the products made in asbestos cement by producing Flower Boxes and Tubs. These have been very well received by the general public, and sales are up to expectations at the present time.

A Further Year of Progress

The Nuralite Company Limited can report a further year of progress, during which the sales of flat sheet Nuralite and the range of Work's preformed flashings have both been increased.

For the current year The Nuralite Company Limited intends to expand its sales force throughout the country. The resultant increase in sales effort will enable the Company to offer a better service to the Building Industry generally, and to further increase its turnover.

The activities of The Weatherall Roofing Company Limited have been on a much increased scale this year and it has successfully carried out many important flat roofing contracts for prominent Architects and authorities throughout the country.

Time spent on development and market exploration is now being rewarded, and this Company's prospects appear to be most encouraging.

The report was adopted.

GLOUCESTERSHIRE
COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECTS.

Applications are invited for the following appointments:

(a) "Career" Class" commencing in A.P.T. IV (£1,065-£1,220) progressing to A.P.T. V (£1,220-£1,375) subject to satisfactory report on reaching appropriate incremental point in Grade. Applicants must be Registered Architects and Associate Members of the R.I.B.A.

(b) "Qualifying Class" Special Grade (£785-£1,070). Applicants must have passed the Final Examination R.I.B.A.

N.J.C. Service Conditions, Superannuation, Medical Examination.

Applicants, stating age, present position, salary and date of appointment, previous appointments, names and addresses of two persons for reference to be submitted to County Architect, Shire Hall, Gloucester, by 8th AUGUST, 1960.

GUY H. DAVIS,
Clerk of the County Council.

SOUTHERN
ELECTRICITY BOARD.

CLERK OF WORKS.

Sub-Area Engineering Department of No. 4 (Bournemouth) Sub-Area. Salary N.J.B. Class L, Grade 13 (£845-£930 per annum). N.J.B. Conditions of Service.

Applicants must have had a thorough training in and sound knowledge of building construction, including reinforced concrete. Possession of the National Certificate in Building Construction and/or allied subjects would be an advantage. General supervision of building and civil engineering works in course of construction.

The successful candidate will be required to contribute to the Electricity Supply (Staff) Superannuation Scheme, if eligible.

Applications on forms obtainable from the Sub-Area Secretary, 1 Priory-road, Bournemouth, and returned to him, quoting Z.1232, not later than 12th AUGUST, 1960.

PETERLEE
DEVELOPMENT CORPORATION.

APPOINTMENT OF SENIOR ARCHITECTS (3).

ARCHITECTURAL STAFF are required for interesting work in the New Town of Peterlee, County Durham. Under the direction of the Corporation's Chief Architect, R. J. A. Gazzard, A.R.I.B.A., A.A.Dipl., M.T.P.I., S.P.Dipl. work is being carried out on housing design and layout, industrial and commercial development, and development of the Town Centre.

Applicants should be experienced in contract administration and the preparation of constructional details relative to housing and town centre design. Salary Grade A.P.T. VI, £1,163-£1,390 per annum, commencing according to experience.

The appointments, which are superannuable, are subject to the Corporation's Staff Rules and Conditions of Service and will be terminable by one month's notice in writing on either side. The successful applicants will be required to pass a medical examination. Housing accommodation will be made available if necessary.

Applications stating age, experience and qualifications, and giving the names of two persons to whom reference can be made, should reach the undersigned not later than MONDAY, 15th AUGUST, 1960.

A. V. WILLIAMS,
General Manager.

Shotton Hall,
Peterlee,
Co. Durham.

AIR MINISTRY

Require CLERKS OF WORKS (BUILDING) at R.A.F. and Ministry of Aviation stations for supervision of construction and maintenance work. Candidates must hold O.N.C. (Building) *or* Intermediate C. and G. Certificate in a craft, *or* Associate Membership of Institute of Clerks of Works *or* equivalent qualification. Must also have served apprenticeship as craftsmen with three years' experience as foreman of trade and have experience as general foreman or clerk of works on big contracts. Three years' full-time or five years' part-time training in a building school or three years' experience in a building office in estimating, costing and management accepted in lieu of apprenticeship. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave a year initially. Overseas tours for which special allowances granted.

Salary ranges from £680 to £785 rising by annual increments to £850. Commencing salary dependent upon age, qualifications and experience. Applicants, who must be natural born British subjects and not over age 45 years, should write, stating age, qualifications and experience, to Manager (P.E. 1048), Professional and Executive Register, Ministry of Labour, Atlantic House, Farringdon-street, London, E.C.4. No original testimonials should be sent. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only candidates selected for interview will be advised.

BLETCHLEY
URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

The Council is about to embark on the second stage of Town Development which will require the provision of some 1,500 dwellings of all kinds, Shops, Factories and Offices, as well as other associated buildings.

Applications are invited for an ARCHITECTURAL ASSISTANT at a salary within Grade III of the A.P.T. Division of the National Scale of Salaries, and subject to one month's notice on either side and the Southern Provincial Council Scheme of Conditions of Service.

Applicants should have had a sound training in architectural work and have reached the Intermediate R.I.B.A. Standard.

Housing Accommodation will be provided, and if the successful candidate uses his own car in connection with his duties, an allowance will be made on the Casual Users' Scale, for a car not exceeding 1,014 c.c.

Applications stating details of age, qualifications, experience, present and past appointments, with the names and addresses of two persons to whom reference may be made, should be delivered to the undersigned by NOON on TUESDAY, 16th AUGUST, 1960.

J. F. SMITHIE, M.I.Mun.E.,
Engineer and Surveyor.

Council Offices,
Bletchley.
22nd July, 1960.

OLDBURY
BOROUGH.

Applications are invited for the following appointments on the staff of the Borough Surveyor's Department.

(a) ARCHITECTURAL ASSISTANT, Salary A.P.T. Grade III (£880-£1,065).

(b) ARCHITECTURAL ASSISTANT, Salary A.P.T. Grade II (£767-£880).

Candidates should be well trained and experienced in the design and preparation of schemes and supervising contracts in connection with general housing including multi-storey flats, public buildings, school buildings, and minor improvements and maintenance works.

The appointments will be superannuable subject to the National Conditions of Service and to the selected candidates passing a medical examination.

Applications, giving particulars of age, qualifications, experience, and the names of two referees, should be delivered to the undersigned not later than the 9th of AUGUST, 1960.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury.
July, 1960.

LONDON
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies have arisen in the Quantities Division which afford an opportunity for interesting and rewarding careers in a variety of branches of quantity surveying. Applications are accordingly invited, particularly from newly qualified surveyors, to fill these positions which include the following types of work:

JUNIOR TAKING OFF/WORKING UP.

Approximate estimating and assisting in cost planning.

Pricing bills of quantities for estimate comparable with Tenders.

Preparation and settlement of final accounts for major building contracts including interim valuations.

Measurement of minor works, schedule accounts, etc.

Salaries up to £1,250 a year.

Application form and particulars obtainable from Hubert Bennett, F.R.I.B.A., Architect to the Council (EK/B/1553/7B), County Hall, S.E.1.

STAFFORDSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANTS, R.I.B.A. Inter. Standard. Salary within grade £765 to £880 per annum, according to experience.)

Vacancies exist for the above posts, offering valuable experience working within a group on a wide variety of projects, including Colleges, Schools, Libraries, Hostels, Fire Stations, Police Stations, Police Headquarters, Offices, Ambulance Stations, Clinics, Training Centres, etc.

Pleasant offices in County town and good working conditions.

The appointments are subject to the National Scheme of Conditions of Service; the Local Government Superannuation Acts, and the passing of a medical examination.

The County Council are prepared to grant a lodging allowance of 35s. per week to married applicants maintaining a home outside the geographical County for a period of six months, and also to give consideration to financial assistance towards removal expenses.

Forms of application, which must be returned WITHIN 10 DAYS from the date of advertisement, may be obtained from the County Architect, Green Hall, Lichfield-road, Stafford.

T. H. EVANS,
Clerk of the County Council.

ILFORD
BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.
SENIOR ASSISTANT QUANTITY SURVEYOR, GRADE A.P.T. III (£880-£1,065) PLUS LONDON WEIGHTING.

Applicants must have qualified by examination as Professional Associates of the Royal Institution of Chartered Surveyors (quantities sub-division) and be competent in Taking-off with a wide range of experience.

An interesting programme of work is envisaged including a variety of municipal buildings and housing.

Commencing salary within the grade according to experience; a five-day working week is in operation.

The Council is prepared to consider, if necessary, the provision of housing accommodation.

The appointment is subject to one month's notice on either side, the provisions of the Local Government Superannuation Acts, National Conditions of service and a medical examination.

Application forms obtainable from the Borough Engineer, Town Hall, Ilford, should be returned not later than MONDAY, 22nd AUGUST.

HARROW
BOROUGH.

Applications are invited for this appointment in the Department of the Borough Engineer and Surveyor:—

SENIOR QUANTITY SURVEYING ASSISTANT (£785 to £1,070 per annum, plus London "Weighting"), commencing point in accordance with qualifications and experience.

Applicants should have passed the Final examination of the R.I.C.S., or I.Q.S., and be fully experienced.

The appointment will be subject to the Local Government Superannuation Acts; and to the National Joint Council's Conditions of Service.

The Council does not provide housing accommodation but a contribution towards removal expenses will be considered.

Forms of application are obtainable from me, to whom they should be returned not later than SATURDAY, 13th AUGUST, 1960.

D. H. PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
Harrow,
Middlesex.

NEWCASTLE UNDER LYME
BOROUGH.

Applications are invited for the following established posts:—

(a) SENIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. IV (£1,065-£1,220 p.a.).

(b) ASSISTANT ARCHITECT, Special Grade £785-£1,070 p.a.).

All applicants must have passed the R.I.B.A. Final Examination, applicants who have recently qualified will be suitable for post (b). Commencing salaries will be in accordance with experience.

Works pending include a Crematorium, Shops, Offices, Flats, Branch Libraries and other interesting projects.

A five-day week is in operation and housing accommodation will be made available in suitable cases.

Application Forms and Conditions of Service may be obtained from the Borough Surveyor, Lancaster Building, Newcastle, Staffordshire, and must be returned to him not later than 15th AUGUST, 1960.

C. J. MORTON,
Town Clerk.

SITTINGBOURNE AND MILTON
URBAN DISTRICT COUNCIL.

ASSISTANT ARCHITECT.

Applications are invited for the above appointment from persons suitably experienced in housing and other local authority work.

National Scheme of Conditions of Service and Local Government Superannuation Acts apply to the appointment. Salary within A.P.T. Grade III or Special appropriate to qualifications and experience.

Housing accommodation will be considered according to needs within the present inclusive rentals of £2 2s. 0d. and £2 11s. 0d. per week.

Applications, with names and addresses of two persons to whom reference may be made, should reach the undersigned not later than MONDAY, 15th AUGUST, 1960.

D. ALLEN,
Clerk of the Council.

Council Offices,
76 High-street,
Sittingbourne.
25th July, 1960.

MIDDLESEX
COUNTY COUNCIL.

CLERKS OF WORKS Required at Southgate Technical College and Brunel College, Acton. Salaries according to qualifications and experience up to £955 inclusive. Unestablished, superannuable, subject to prescribed conditions.

Full details to the County Architect, 1 Queen Anne's Gate Buildings, Dartmouth-street, S.W.1, by 8th AUGUST. (Quote E.37B.)

EAST ANGLIAN
REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

The following staff is required to assist in carrying out an increased hospital building programme, a large proportion of which is to be designed and supervised by the staff of the Regional Architect's Department:

(1) ASSISTANT ARCHITECTS.
Salary: £905-£1,310.
Qualification: Registered Architect by examination.

(2) ARCHITECTURAL ASSISTANTS.
Salary: £625-£900.
Qualification: Intermediate R.I.B.A.

(3) ARCHITECTURAL DRAUGHTSMEN.
Salary: £475-£685
Should have had 3 years' experience in architectural drawing.

The work to be undertaken covers the whole field of hospital architecture, ranging from adaptation schemes to new major development projects.

All posts are superannuable. Five-day week.

Applications stating age, qualifications, experience and details of present position, with names of three referees, to Secretary of Board, 117 Chesterton-road, Cambridge, by 15th AUGUST, 1960.

SOLIHULL
BOROUGH.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited from ARCHITECTS with suitable qualifications and experience for the under-mentioned appointments:

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. Grade V (£1,220-£1,375 per annum).

(b) ASSISTANT ARCHITECTS, A.P.T. Grade IV (£1,065-£1,220 per annum).

(c) ASSISTANT ARCHITECTS, A.P.T. Special (£785-£1,070 per annum).

(d) ASSISTANT ARCHITECT, A.P.T. Grade I-II (£610-£880 per annum).

The Borough, which has a population of approximately 90,000 and which is still expanding rapidly, is an Excepted District for education and has been recommended for County Borough status by the Local Government Commission for England. There is a considerable programme of varied capital works to be undertaken in the very near future.

The appointments will be subject to satisfactory medical reports, the Local Government Superannuation Acts, the National Scheme of Conditions of Service and to one month's notice in writing on either side.

In appropriate cases the Council will assist in the provision of housing accommodation and half removal expenses will be paid.

Applications, giving full particulars as to age, qualifications and past and present experience, together with the names and addresses of two referees should be submitted to the Borough Surveyor, 90 Station-road, Solihull, not later than TUESDAY, 9th AUGUST, 1960.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull,
Warks.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
(Non-County Borough in the County of Middlesex—Population 109,700—Area, 12,400 acres.)

Applications are invited, from suitably qualified persons, for the following permanent appointments:

(1) ASSISTANT ARCHITECT, A.P.T. IV (£1,065-£1,220 plus London Weighting).

(2) ARCHITECTURAL ASSISTANTS (2 No.), A.P.T. III (£880-£1,065 plus London Weighting).

(3) ARCHITECTURAL ASSISTANT, A.P.T. II (£765-£880 plus London Weighting).

(4) JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I (£610-£765 plus London Weighting).

The commencing salary will be fixed at points within the Scale commensurate with qualifications and experience.

There is a large varied programme of work, including the redevelopment of Clearance Areas and other areas scheduled for Comprehensive Development.

Saturday mornings are normally free from duty.

Application forms, obtainable from H. D. Peake, M.Sc. (Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., must be delivered to the undersigned not later than TUESDAY, 9th AUGUST, 1960.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Gentlemans-row,
Enfield, Middx.

BLACKPOOL
COUNTY BOROUGH.

Applications invited for:
ARCHITECTURAL ASSISTANT, A.P.T. I (£610-£765).

Forms, etc., from Arthur Hamilton, B.Sc., A.R.I.B.A. (Borough Surveyor), P.O. Box 17, Municipal Offices, Blackpool.

MIDDLESEX COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT

ASSISTANT ARCHITECT, APT V (£1,265-£1,420 p.a.)
ASSISTANT ARCHITECT, APT IV (£1,110-£1,265 p.a.)
ASSISTANT ARCHITECT, Special Grade (£785/£1,070)
plus London Weighting up to £45.
JUNIOR ASSISTANT, APT I (£610/£765)
plus London Weighting up to £40.

The department has in hand a large and interesting programme of works for School Buildings, Technical Colleges, Old People's Homes, Fire Stations and other County Buildings which will be designed under the direction of MR. WHITFIELD LEWIS, F.R.I.B.A., the County Architect. Organization is on a group basis and full scope will be given to Architects who show design ability.

Appropriate professional qualifications are required for all posts and commencing salaries will be assessed according to qualifications and experience. Established appointments subject to prescribed conditions.

Application forms (s.a.e.) from The County Architect, 1 Queen Anne's Gate Buildings, Dartmouth Street, S.W.1, returnable by 10th August. (Quote C.979.B.)

SOLIHULL
BOROUGH.

APPOINTMENT OF LANDSCAPE ARCHITECT.

Applications are invited from members of the Institute of Landscape Architects who have had considerable experience, for appointment as LANDSCAPE ARCHITECT in the Borough Engineer and Surveyor's Department at a salary in accordance with A.P.T. Grade IV, £1,065 x £55(1) x £50(2) to £1,220.

The rapid growth of the Borough has necessitated the development of public open spaces and playing fields, as well as the landscaping of housing estates, etc.

Half the reasonable cost of removal expenses will be paid, and where applicable housing accommodation made available as soon as possible.

The appointment is subject to the provisions of the Local Government Superannuation Acts; the National Scheme of Conditions of Service, a medical examination and to one month's notice on either side.

Applications, giving full particulars as to present and past experience, together with the names and addresses of two referees, should be submitted to the Borough Surveyor, 90 Station-road, Solihull, not later than 9th AUGUST, 1960.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull.
14th July, 1960.

SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department:

(a) QUANTITY SURVEYING ASSISTANT, A.P.T. V (£1,265-£1,420). Candidates must be well qualified and thoroughly experienced, capable of taking off quantities for large housing schemes including multi-storey blocks of flats and of handling final accounts and special subsidy calculations. Unestablished post.

(b) QUANTITY SURVEYING ASSISTANT, A.P.T. IV (£1,110 to £1,265). Candidates must be qualified and experienced for duties including taking off for housing schemes with multi-storey flats, preparing bills of quantities, specifications and estimates. Unestablished post.

(c) QUANTITY SURVEYING ASSISTANT, A.P.T. II (£805 to £920). Candidates must be qualified to intermediate level and experienced in assisting with taking off, abstracting and billing, and the supervision of contract works in progress. Permanent post.

Council's Conditions of Service of Officers and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date FIRST POST on 22nd AUGUST, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant & Castle Underground Station),
Walworth-road, S.E.17

KESTEVEN
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
ASSISTANT ARCHITECTS
Special Grade (£785-£1,070).

Full particulars of the above appointments may be obtained from the County Architect, County Offices, Sleaford, Lincs.

Applications from suitably qualified persons, with the names and addresses of two referees, should reach the undersigned not later than the 26th AUGUST, 1960.

J. E. BLOW,
Clerk of the County Council.

County Offices,
Sleaford,
Lincs.

SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments on the establishment of the Borough Engineer and Surveyor's Department:

ARCHITECTURAL ASSISTANTS, A.P.T. I (£650 to £805 p.a.) or A.P.T. II (£805 to £920 p.a.).

Vacancies in design groups dealing with mixed housing and other development. Applicants should possess intermediate R.I.B.A. for A.P.T. II.

Council's Conditions of Service of Officers and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date FIRST POST on 22nd AUGUST, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant & Castle Underground Station),
Walworth-road, S.E.17

LONDON COUNTY
COUNCIL.

ARCHITECT'S DEPARTMENT.

ARCHITECTS (up to £1,250) and ARCHITECTURAL ASSISTANTS (up to £950) required in the Development Group of the Housing Division. The Group is to be expanded and work will involve application of building techniques in experimental building schemes of substantial size.

Starting salary according to experience and qualifications. Particulars and form, returnable by 12th AUGUST, from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1962/7), County Hall, S.E.1.

BUCKS
COUNTY COUNCIL.

Applications are invited for the position of ASSISTANT COUNTY ARCHITECT, Grade "D," £1,520-£1,755 p.a. Starting salary in accordance with qualifications and experience. The position offers considerable scope to the right man.

The appointment is superannuable and subject to medical examination and applicants should be Associates of the Royal Institute of British Architects.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by the 15th AUGUST, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks.

BUCKS
COUNTY COUNCIL.

Applications are invited for the following appointments in the County Architect's Department:—

ASSISTANT ARCHITECT, J.N.C. Scale "C," £1,385-£1,620 p.a.
ASSISTANT ARCHITECT, J.N.C. Scale "B," £1,285-£1,485 p.a.
ASSISTANT ARCHITECT, A.P.T. Grade V, £1,220-£1,375 p.a.

The appointments are superannuable and subject to medical examination and applicants should be suitably qualified for architectural appointment.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by the 15th AUGUST, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks.

BRECONSHIRE
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:
(a) ONE ASSISTANT ARCHITECT, A.P.T. Grade IV (£1,065-£1,220).
(b) TWO ASSISTANT ARCHITECTS, Special Grade (£785-£1,070).
Applicants must be Associates of the R.I.B.A. or hold equivalent qualifications and should have considerable experience in design, construction and contract administration. Additionally, in respect of post (a), considerable general administrative experience is essential.
(c) ONE ARCHITECTURAL ASSISTANT, A.P.T. Grade II (£765-£880).
Applicants must have passed the Intermediate R.I.B.A. examination or its equivalent and had good architectural experience.
(d) ONE ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610-£765).
Applicants should be capable draughtsmen and have had previous experience.
Canvassing, directly or indirectly, will definitely disqualify candidates. Applicants must state whether to their knowledge they are related to any member or senior officer of the Council.
Application forms and conditions of appointment may be obtained from the County Architect, Rhyd Offices, Brecon, and completed applications must be received by the undersigned not later than 20th AUGUST, 1960.
The Authority has embarked on a Staff Housing Scheme and successful applicants will be considered for accommodation available.
C. M. S. WELLS,
Clerk of the County Council.
County Hall,
Brecon.

NEWCASTLE
REGIONAL HOSPITAL BOARD.

EXPANSION OF ARCHITECTURAL DEPARTMENT.
P. H. KNIGHTON, M.B.E., A.R.I.B.A., REGIONAL ARCHITECT.
Arising from the number of major projects (totalling about £14m.) to be carried out in the Newcastle Region as part of the Hospital Expansion Programme, the Board intends to add considerably to its Architectural Department in Newcastle.
The work is of a high-class and varied nature and offers ample opportunity for gaining experience in both highly-specialised hospital structures and many types of ancillary general and domestic buildings. Possession of hospital experience is not essential. The work will involve all stages from sketch plans to supervision of construction and a car mileage allowance will be paid.
Applications are invited for the following (superannuable) posts:
SENIOR ASSISTANT ARCHITECTS (£1,300 x £60(5)-£1,600).
Applicants should be registered architects and have had experience of the design and construction of major public buildings. Experience of hospital work is desirable but not essential.
ASSISTANT ARCHITECTS (£905 x £35(1) x £45(6) x £50(2)-£1,310).
Applicants should have passed the R.I.B.A. Final Examination. For registered architects increments can be given above the bottom of the grade in accordance with relevant practical experience since qualifying.
ARCHITECTURAL ASSISTANTS (£625 x £30(8) x £35(1)-£900).
Inter. R.I.B.A. and preferably some practical experience.
ARCHITECTURAL DRAUGHTSMEN (£475 x £25(6) x £30(2)-£685).
Applicants should have had 3 years' previous experience in an architect's drawing office and be neat and quick draughtsmen.
Evening study facilities are available at King's College of Durham University in Newcastle.
Applications should give details of professional training, qualifications, experience and posts held, present salary and any other relevant information, should be accompanied by the names of three architectural referees and should reach the Secretary to the Board, Benfield-road, Newcastle upon Tyne 6, not later than 11th AUGUST, 1960.
Canvassing will disqualify.

BLACKPOOL
COUNTY BOROUGH.

Applications are invited for:
ASSISTANT QUANTITY SURVEYORS, Special Scale, £785-£1,070 p.a.
Forms, etc., from Arthur Hamilton, B.Sc., A.R.I.B.A. (Borough Surveyor), P.O. Box 17, Municipal Offices, Blackpool.

LONDON
COUNTY COUNCIL.

BUILDING SURVEYORS.
Architect's Department, L.C.C., has vacancies in Building Regulation Division and District Surveyors' Service for work in connection with applications under the London Building Acts and Byelaws. District Surveyors' offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.
Up to £1,250, commencing according to qualifications and experience. Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1637/7D), County Hall, S.E.1.

CARSHALTON
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.
ASSISTANT ARCHITECTS.
(a) One within scale £810-£1,115. Qualifications: Final R.I.B.A. or equivalent.
(b) Two within scale £780-£920. Qualifications: Inter R.I.B.A. or equivalent.
Commencing salaries according to experience of candidates.
Building work envisaged offers a varied and interesting programme for both senior and junior appointments.
Carshalton is a large Urban District within the Greater London area and has a population of 60,000.
Five-day working week in operation.
Application forms for above appointments, indicating post required, obtainable from the undersigned, to be returned within fourteen days from date of appearance of this advertisement.
C. H. DURRANT,
Clerk of the Council.
District Council Offices,
The Grove,
Carshalton,
Surrey.

THE WEST RIDING OF YORKSHIRE
COUNTY COUNCIL.

OFFICE OF THE COUNTY ARCHITECT.
Applications are invited for the undermentioned appointments at Divisional Offices:
(1) ARCHITECTURAL ASSISTANTS OR BUILDING SURVEYORS, Grade A.P.T. II, £765-£880 p.a., at the Huddersfield and Doncaster Divisional Offices to deal with maintenance, adaptation and minor capital works.
(2) ARCHITECTURAL ASSISTANT, Grade A.P.T. I, £610-£765 p.a., at the Huddersfield Divisional Office.
(3) CLERKS OF WORKS, Grade A.P.T. I, £610-£765 p.a., at the Huddersfield and Wakefield Divisional Offices. Candidates should have a sound knowledge of building construction and maintenance, be experienced in the supervision of building works and capable of preparing reports and approximate estimates of cost and the checking of builders' accounts.
Applications, stating age, qualifications, experience, present position and giving the names and addresses of two referees, to be delivered to the County Architect, Bishopgarth, Westfield-road, Wakefield, not later than the first post on TUESDAY, 16th AUGUST, 1960.

AIR MINISTRY

Works Designs Branch requires in London CIVIL ENGINEERING DESIGNER DRAUGHTSMEN with adequate training and drawing office experience in one or more of the following:
(a) Roads, pavements, earthworks and stormwater drainage.
(b) Foul drainage and sewage disposal.
(c) Water supply and distribution.
Some site experience and possession of recognised technical qualification an advantage. Financial assistance and time off may be allowed for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave per year initially. Salary ranges from £680 (at age 25) to £900 p.a. Commencing salary dependent on age, qualifications and experience. Applicants, who must be natural born British subjects, should write to Air Ministry, W.G.d., Lacon House, Theobalds-road, London, W.C.1, or apply to any Employment Exchange quoting Kings Cross 3746, giving age, details of training, qualifications, full particulars of former posts held and copies of any testimonials. Candidates selected will normally be intereviewed in London and certain expenses reimbursed.

MANCHESTER
CITY.

HOUSING DEPARTMENT.
Applications are invited from suitably qualified persons for the following appointments:
CLERKS OF WORKS (TEMPORARY), A.P.T. II, £765-£880 p.a.
Particulars of age, qualifications and experience of the Building Trade including supervision, if any, of reinforced concrete structures as required in multi-storey flats, to the Director of Housing, Town Hall, Manchester 2, to be received by 6th AUGUST, 1960.

TOTTENHAM
BOROUGH.

Applications are invited for the following established post:—
DRAUGHTSMAN (Male or Female), A.P.T. I, £610 to £765 per annum.
London Weighting allowance of £15, £25 or £40 p.a., according to age.
Applicants should have had drawing office experience, preferably on building and/or civil engineering works.
Five-day week; canteen facilities; Sports Club with private accommodation for sports and recreation facilities; percentage of removal expenses reimbursed.
Application form and Conditions of Appointment from Borough Engineer (B), Town Hall, Tottenham, N.15 to whom applications must be delivered not later than WEDNESDAY, 10th AUGUST, 1960.

TOTTENHAM
BOROUGH.

Applications are invited for the following unestablished post:
ASSISTANT GENERAL FOREMAN for work in connection with the upkeep of Corporation and Education properties and various new building works. Applicants must have a thorough knowledge of all branches of the building trade and experience in the organisation of work and handling of labour.
A.P.T. Grade I: £610 to £765 per annum, plus £25 or £40 per annum London Weighting allowance according to age.
Application form and Conditions of Appointment from the Borough Engineer (B), Town Hall, N.15, to whom applications must be delivered not later than FRIDAY, 12th AUGUST, 1960.

WEST MANCHESTER
H.M.C.

PARK HOSPITAL, DAVYHULME.
WORKS ASSISTANT required in the office of the Superintendent Engineer and Building Supervisor. Duties will include the making of simple drawings and tracings and assisting in the preparation of specifications and estimates of cost. No specific qualifications are required but candidates should have a building or engineering background. Salary scale (at present under review) at age 26 or over £525 x £25(4) to £625 per year for a working week of 38 hours. Leave entitlement three weeks plus bank holidays. For applicants under 26 years the salary scale is reduced. Application forms from the Group Secretary, Park Hospital, Davyhulme.

NOTTINGHAM CITY
EDUCATION COMMITTEE.

COLLEGE OF ART AND CRAFTS.
PRINCIPAL: Robert Lyon, D.A. (Glas), F.R.S.A.
LECTURER-IN-CHARGE: D. S. Kilner, Dipl.T.P. (Leeds), A.R.I.B.A., M.T.P.I.
Applications are invited for the full-time post of LECTURER in the Department of Town and Country Planning, which is recognised for exemption from the Final Examination of the Town Planning Institute. Duties to commence as early as possible. Candidates should be corporate members of the Town Planning Institute and the Royal Institute of British Architects.
Salary: Burnham Report, 1959, Lecturer Scale, i.e. £1,370 x £35-£1,550, with one final increment of £40 (men), and £1,100 x £28-£1,240 with equal pay increments (women).
Further particulars and application forms can be obtained from the Principal, College of Art and Crafts, Waverley-street, Nottingham, to whom the latter should be returned within 14 days of this advertisement.
W. G. JACKSON,
Director of Education.
Education Office,
Exchange Buildings,
Nottingham.

BOOTLE
COUNTY BOROUGH.

BOROUGH SURVEYOR'S DEPARTMENT.
Applications are invited for the appointment of a BUILDING ESTIMATOR AND BONUS SURVEYOR in the Public Works Section of the Borough Surveyor's Department on A.P.T. Grades II/III (£765 to £1,065 per annum).
Applicants must be fully experienced in rate build-up and pricing, interim valuations, final accounts and bonus targets, etc., in connection with housing and other building contracts.
Application forms from the Borough Surveyor, Town Hall, Bootle 20, Lancs, are returnable by FRIDAY, 5th AUGUST, 1960.

NELSON
BOROUGH.

JUNIOR ASSISTANT ARCHITECT.
Applications are invited for the appointment of a JUNIOR ASSISTANT ARCHITECT in the office of the Borough Engineer and Surveyor, at a salary within the scale A.P.T. I-II (£610-£880 per annum), commencing salary in accordance with age and experience.
Applicants should have some experience of an Architect's office and be studying for the R.I.B.A. qualification.
The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts and to the passing of a medical examination.
Consideration will be given to the provision of housing accommodation.
Applications (endorsed "Junior Assistant Architect") giving details of age, education, qualifications, experience and present salary together with the names and addresses of two referees, to be received by the undersigned not later than FIRST POST on SATURDAY, the 6th AUGUST, 1960.
F. W. ROBERTS,
Town Clerk.
Town Hall,
Nelson.
23rd June, 1960.

CARLISLE CITY

APPOINTMENT OF SENIOR ASSISTANT QUANTITY SURVEYOR.
A.P.T. IV (£1,065-£1,220).
Applications are invited from Qualified QUANTITY SURVEYORS for the above appointment in the City Surveyor's Office.
Rented housing accommodation will be available to the successful applicant.
Forms of application, returnable not later than 22nd AUGUST, 1960, may be obtained from, and enquiries made to, the City Surveyor, 18 Fisher-street, Carlisle.
H. D. A. ROBERTSON,
Town Clerk.

LEICESTER CITY.

CITY ARCHITECT'S DEPARTMENT.
QUALIFIED ARCHITECTS are required as follows:—
General Section:
GROUP LEADER, Grade A.P.T. IV (£1,065-£1,220).
ASSISTANT ARCHITECTS, Special Grade (£785-£1,070).
Housing Section:
ASSISTANT ARCHITECTS, Special Grade (£785-£1,070).
The commencing salary in the Special Grade posts will be up to maximum according to experience.
Current projects of the General Section include new Municipal Baths and Civic Centre.
The work of the Housing Architects includes the redevelopment of Central Areas.
Previous Local Government experience not essential. Housing accommodation, at an economic rent, will be provided, if necessary.
National Conditions of Service apply.
Applications, stating post applied for, together with names of two referees, should reach the undersigned not later than MONDAY, 8th AUGUST, 1960.
J. H. LLOYD OWEN,
City Architect.
10 Loseby-lane,
Leicester.

SURREY
COUNTY COUNCIL.

Applications invited from persons with necessary qualifications for appointment as ASSISTANT ARCHITECT, Grade V (£1,220-£1,375 p.a. plus £45 p.a. London Allowance). Must be A.R.I.B.A.
Applications stating fully age, qualifications, experience and present salary, accompanied by copies of three testimonials, to County Architect, County Hall, Kingston, as soon as possible.

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swings up—swings down, at the touch of a finger in any weather! Unique Alborough ball-bearing slide-over action, with counter-balance weights, ensures free and full movement without any effort. Range of standard sizes to equip most garage doors.

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34/35 ALPHA ROAD, SURBITON, SURREY.
Tel. ELMbridge 6591/3.

LEYTON
BOROUGH
(in the County of Essex).

COMMITTEE FOR EDUCATION.
APPOINTMENT OF
ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANT, Grade A.P.T. II. £765-£880 per annum, plus London Weighting. The successful applicant will be employed by the Essex County Council, and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10; a five-day week is operated.

Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale-road, Leytonstone, E.11, to whom they should be returned not later than FRIDAY, the 5th AUGUST, 1960.

SWINDON
EDUCATION COMMITTEE.

Applications are invited for appointment as TECHNICAL ASSISTANT (BUILDINGS AND SITES) in the Education Department. Salary A.P.T. Grade II (£765-£880 p.a.). Candidates should possess suitable technical qualifications with practical experience in the building trades. Administrative experience a recommendation. Consideration may be given to an allocation of housing accommodation.

Further particulars and application forms, which must be returned by the 15th AUGUST, 1960, may be obtained from the Borough Education Officer, Civic Offices, Swindon, Wiltshire.

WEST HAM
COUNTY BOROUGH.

Applications invited for :—

(a) SENIOR ENGINEERING ASSISTANT (Grade A.P.T. IV, £1,065-£1,220 p.a.).

(b) ENGINEERING ASSISTANT (Special Grade, £785-£1,070 p.a.).

(c) TECHNICAL ASSISTANTS (A.P.T. II, £765-£880 p.a.).

(d) JUNIOR SURVEYING ASSISTANT (Grade A.P.T. I, £610-£765 p.a.).

(e) ASSISTANT ESTIMATOR (Building Works). (Grade A.P.T. I, £610-£765 p.a.), plus London allowance £15-£45 p.a. according to age, etc. Commencing salaries within the above grades according to experience.

Full particulars and forms of application returnable by 17th AUGUST, 1960, from Borough Engineer and Surveyor, West Ham Town Hall, Stratford, E.15.

WEST HAM
COUNTY BOROUGH.

BOROUGH ARCHITECT AND
PLANNING OFFICER'S
DEPARTMENT.

Applications invited for established posts as follows :—

GROUP ARCHITECT, £1,065-£1,220 p.a.

DEPUTY GROUP ARCHITECT, £785-£1,070 p.a.

ARCHITECTURAL ASSISTANT, £610-£765 p.a.

(London Allowance in addition.)

Commencing salary according to qualifications and experience.

Applications to Borough Architect and Planning Officer, 70 West Ham-lane, Stratford, E.15.

NATIONAL COAL BOARD.
(N. & C.) DIVISION.

Vacancies occur in the office of the Architect to the Northern (N. & C.) Division of the National Coal Board, Divisional Headquarters, Whitley-road, Longbenton, Newcastle upon Tyne, 12, for qualified ARCHITECTS of some experience, to work as seconds in teams on a variety of work, including offices, medical centres, laboratories, pithead baths, and colliery surface buildings. Applicants must be A.R.I.B.A. with office experience of working drawings of first class work. Salary within scale £815 x £30—£1,125 p.a.

Applications giving date of birth and full details of education, qualifications and experience to Divisional Chief Staff Officer at the above address by 8th AUGUST, 1960. Please quote: A/2.

BUCKS
COUNTY COUNCIL.

Applications are invited for the appointment of a BUILDING SURVEYOR in the County Architect's Department on Grade A.P.T. II/III, salary £765-£880/£1,065 p.a.

The appointment is superannuable and subject to medical examination, and applicants should have a sound knowledge of the building industry, be able to prepare plans and specifications and supervise normal maintenance works.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by 22nd AUGUST, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury.

WOLVERHAMPTON
COUNTY BOROUGH.

BOROUGH ENGINEER'S
DEPARTMENT.

Applications are invited for the following appointments :

(a) PRINCIPAL ASSISTANT ARCHITECT, salary within Grades A.P.T. IV to V (£1,065-£1,375).

(b) ASSISTANT ARCHITECTS, salary in accordance with the Special Scale (£785-£1,070).

(c) ARCHITECTURAL ASSISTANTS, salary within Grades A.P.T. I to II (£610-£880).

Commencing salaries according to qualifications and experience.

Housing accommodation may be made available in respect of post (a).

Applications, stating age, qualifications, training and experience, and naming two referees, to the Borough Engineer, Town Hall, Wolverhampton, by THURSDAY, 11th AUGUST, 1960.

SWINDON
BOROUGH.

APPOINTMENT OF
ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above appointment in the Borough Surveyor and Planning Officer's Department at a salary in accordance with A.P.T. Grade II (£765-£880 per annum).

The minimum qualification required is the Higher National Certificate in Building or the Building Inspector's Certificate of the Institution of Municipal Engineers. Candidates must also have had experience in the administration of Improvement Grants under the Housing Acts.

HOUSING ACCOMMODATION will be offered to married candidates from other areas and assistance towards removal expenses may be granted.

Only a skeleton staff is on duty on Saturday mornings.

Applications on form to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned by 9th AUGUST, 1960.

LONDON
COUNTY COUNCIL.
STRUCTURAL ENGINEERS.

Required in Architect's Department, L.C.C., salary up to £1,250, in :—

(a) STRUCTURAL ENGINEERING DIVISION. Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings.

(b) STRUCTURAL ENGINEERING DIVISION. To deal with applications in respect of special structures under Part IV of the London Building Act (A) Act, 1939, and the constructional By-laws. Interesting work involving consideration of unconventional forms of construction.

(c) DISTRICT SURVEYORS' SERVICE. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress.

Good prospects in all these aspects of the Council's work.

Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1638/7D), County Hall, S.E.1.

BIRMINGHAM CITY
CHILDREN'S COMMITTEE.

FORHILL HOUSE SENIOR BOYS'
REMAND HOME.
NR. KINGS NORTON.

Applications invited for the post of INSTRUCTOR to specialise in building and repairs. Salary : £550 x £20-£630 plus £216 for minimum of 15 hours extraneous duty per week. Two-bedroomed house available. Wife of successful candidate can be considered for post of assistant cook.

Application forms and further particulars from : Children's Officer, 91 Lionel-street, Birmingham 3. P.O. Box 93. Closing date : 12th AUGUST, 1960.

WEST SUSSEX
COUNTY COUNCIL.

COUNTY ARCHITECT'S
DEPARTMENT.

Applications are invited for the following appointment :—

ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade II of the National Scales of Salaries (£765-£880), commencing salary according to experience.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted not later than 18th AUGUST, 1960.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.

NORTHAMPTON
COUNTY BOROUGH.

THREE SENIOR ASSISTANT
ARCHITECTS, A.P.T. IV-V
(£1,065-£1,375).

Applications are invited for these appointments in Northampton which has an interesting programme of new schools, municipal buildings and multi-storey flats in redevelopment schemes.

Commencing salaries will depend upon ability and experience.

Full particulars and application forms, returnable by 8th AUGUST from Borough Architect, Guildhall, Northampton.

C. E. VIVIAN ROWE.

ANGLESEY
COUNTY.

CHIEF ASSISTANT ARCHITECT,
GRADE A.P.T. IV.

Applications are invited from appropriately qualified ARCHITECTS for the above appointment within the salary scale £1,065-£1,220.

Applications to the Acting Clerk of the County Council, Shire Hall, Llangefni, Anglesey, by not later than 13th AUGUST, 1960.

OVERSEAS PUBLIC APPOINTMENTS

SIERRA LEONE
GOVERNMENT.

INSTRUCTOR
(BRICKWORK)

required by SIERRA LEONE GOVERNMENT Technical Education Department on contract for three tours of 10-12 months in the first instance. Salary according to qualifications and experience in scale (including Inducement Pay) £966 rising to £1,528 a year. Gratuity at rate of 15 per cent. of total salary drawn. Outfit allowance £60. Children's allowance up to £288 a year. Free passages. Liberal leave on full salary. Quarters available at moderate rental.

Candidates must have C. & G. Full Technological (Brickwork) or similar qualification, and have had at least five years' practical experience. Teaching experience desirable, but not essential.

Write to the CROWN AGENTS, 4 Millbank, London, S.W.1. State age, name in block letters, qualifications and experience and quote M2B/51097/BH.

INSPECTORS OF WORKS

(BUILDINGS, MECHANICAL AND WATER)

NORTHERN REGION OF NIGERIA

Applications are invited from suitably qualified candidates to fill several vacancies in the Ministry of Works, Northern Region of Nigeria, as Inspectors of Works, Buildings, Mechanical and Water.

Applicants for Inspectors of Works, Buildings should have a confirmed experience of supervision of erection of large buildings and control of building labour; intimate knowledge of buildings site organisation and must have served apprenticeship in a Building Trade. City and Guilds in a Building Trade is of great assistance. Applicants should have been Trade Foremen or General Foremen in the United Kingdom.

Candidates for Inspectors of Works (Mechanical) should be fully experienced in the operation maintenance and overhaul of all kinds of road construction plant, and commercial vehicles of all types. Experience should include machine shop practice as particularly applied to overhaul of petrol and compression ignition engines and automobile electrical apparatus. Preferences may be given to candidates possessing a City and Guilds certificate in vehicle technology.

For Inspectors of Works (Water) candidates are required to have a recognised apprenticeship as plumber, fitter or pipe layer with at least 5 years' experience in water supply schemes. Possess considerable experience in Water Supply Corporation or Water Works operation and maintenance will be accepted in lieu of apprenticeship.

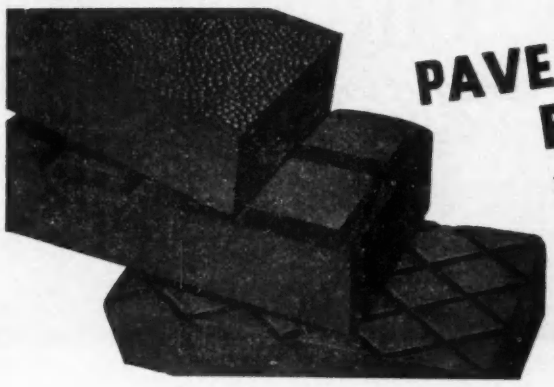
Salary will depend on qualifications and experience and will be in the range of £906–£1,554 per annum. Generous leave with full pay and other allowances are also payable.

For details and condition of appointment please apply to :—

The Recruitment Secretary
(Overseas),
**Northern Region
Recruiting Agency,**
9 Northumberland Avenue,
London, W.C.2

ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.



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For factory and other floors exposed to heavy traffic, impact and corrosion, Accrington 'Nori' Paving Bricks may be specified with the utmost confidence. Made from the same material as the famous Accrington Engineering Bricks. Samples on request.
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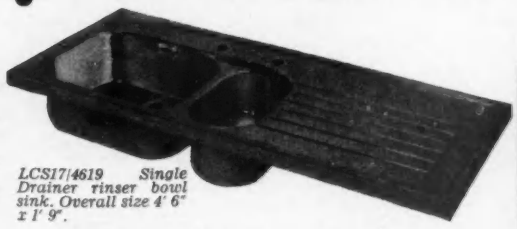
STAINLESS STEEL SINKS

We have much pleasure in introducing to you a new series of Stainless Steel Sinks, designed to meet the needs of the busy housewife.

The sinks in this new SB series incorporate a small slop bowl alongside the washing up bowl. The slop bowl is available with various sinkages, to suit a waste disposal unit, a 3½" crumb cup waste, or a normal 1½" waste outlet and can be supplied with a stainless steel strainer basket to retain tea-leaves, etc. The sinks are available with single or double drainers, or as a dual bowl, double drainer sink.

Send for Free Illustrated Leaflets and Price Lists of our larger range of Sinks

MS38SB/5319/T Double Drainer Slop Bowl Sink Overall size 5' 3" x 1' 9".



LCS17/4619 Single Drainer rinser bowl sink. Overall size 4' 6" x 1' 9".

A further addition to our extensive range is the single drainer CS type sink. These sinks have a rinser bowl alongside the wash-up bowl, which may be used for rinsing and also soaking salads, etc., while the large bowl is being used for other purposes. Available in three sizes with drainer on right or left as required.

THE STAINLESS STEEL SINK CO. LTD.

HEAD OFFICE: RING ROAD, LOWER WORTLEY, LEEDS, 12. TEL: LEEDS 63-8711 PBX

LONDON OFFICE: 14 GREAT PETER STREET, WESTMINSTER, S.W.1. TEL: ABBEY 1575

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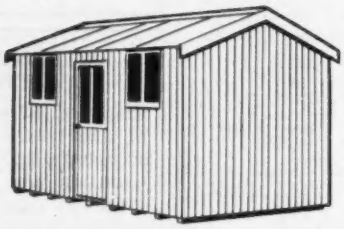

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THE **JIFFY SECRET WEDGE NAIL FOR WALLBOARD**

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Inserted with a tool holding a pack of 50 nails at one loading.

Also the maker of the JIFFY wallboard bevelling and grooving tools.

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Makes Plain Slabs, Grooved, or Tongued and Grooved Slabs, Frogged or Plain Bricks, Rock Faced and other Building Blocks. Hand Tamping unnecessary. Fast in operation. Needs only wood pallets.

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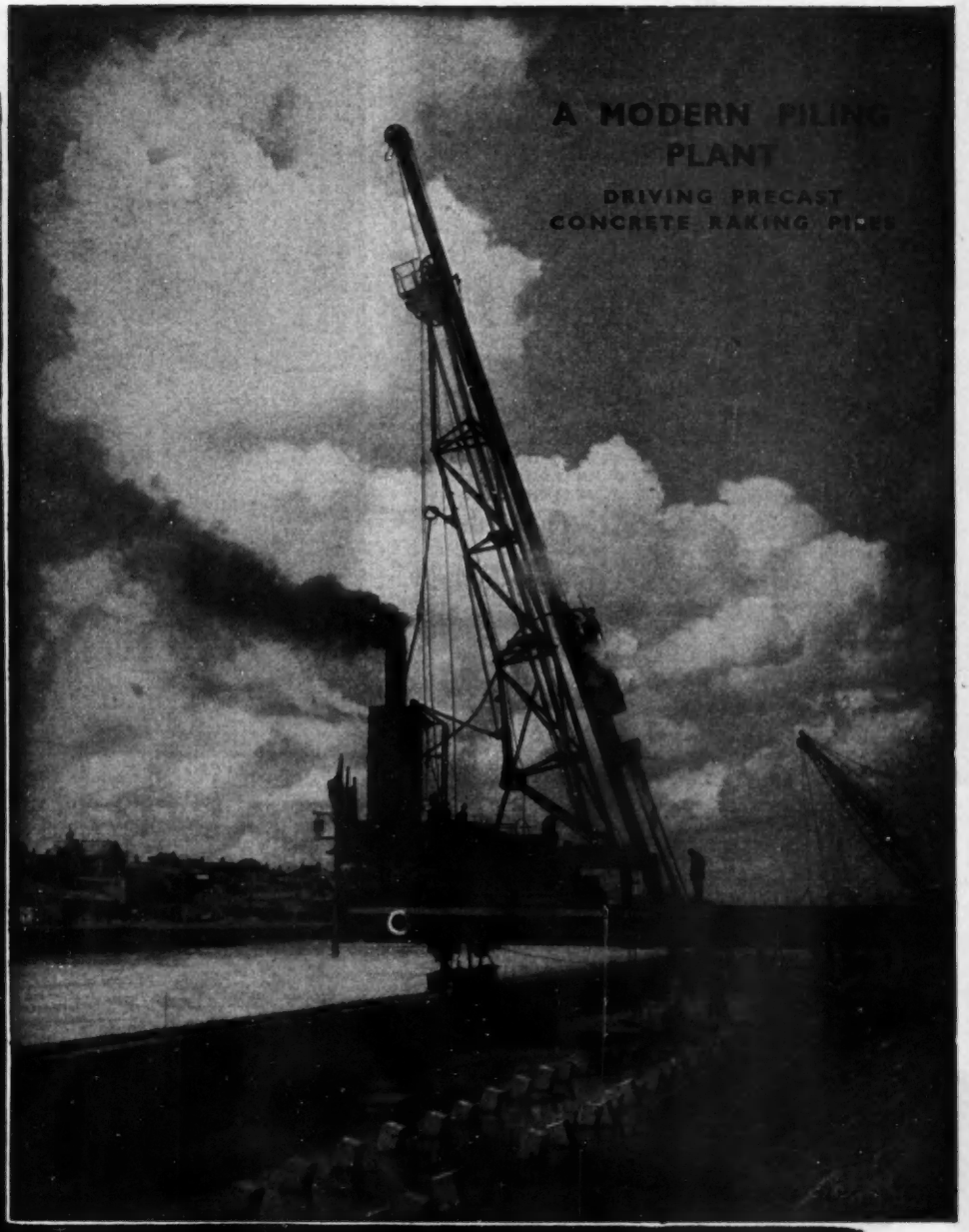

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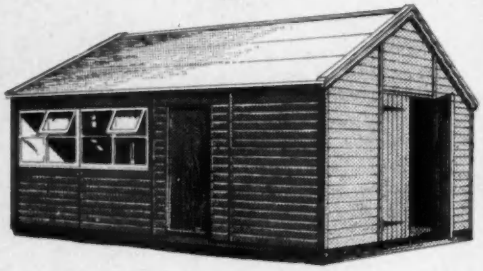
ROMNEY HOUSE, TUFTON STREET, LONDON, S.W.1

TELEPHONE ABBEY 7161

VH.15

LOW-COST ALL-PURPOSE BUILDING



The V.H. 15 is a Low-Cost All-Purpose Building attractive in both price and design. In 5 ft. units. Doors (single or double) and window positioned where required. Simple to erect, dismantle and re-erect.

Suitable for Offices, Stores, Canteens and Recreation Rooms.

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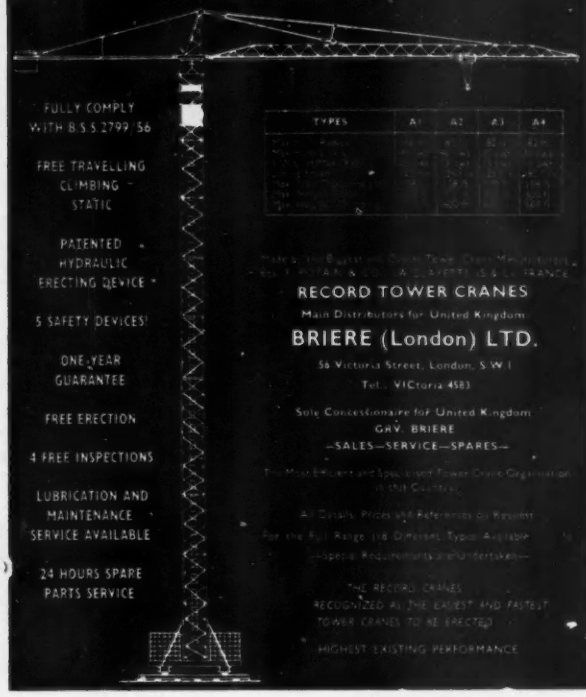

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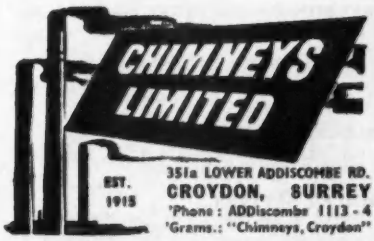

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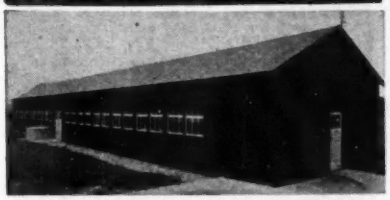

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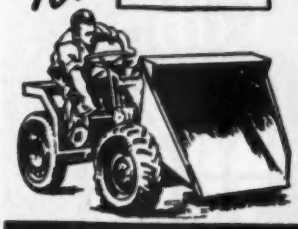

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ASSISTANT, Inter R.I.B.A. standard, Required by Property company in London, S.W.7, for work in Architects' department, engaged mainly on good quality housing and maisonette development. Salary by arrangement. L.Vs. 5-day week.—Box 529, "The Builder."

£1,250-£1,450. ASSISTANT Required. Experience and keenness essential, qualifications secondary. Small West End office, varied practice with contemporary bias, prospects for man who can control contracts from drawing board to completion.—Details to Box 548, "The Builder."

ARCHITECTS' ASSISTANTS Required. Senior Final. Starting salary £1,200 or higher for special ability. Also Juniors Inter. for details, etc. Schools and general practice. Bonus and pensions, 5-day week.—Full particulars to SANDY & NORRIS, 134 Newport-road, Stafford.

TOOLEY AND FOSTER Require ARCHITECTURAL ASSISTANTS. Intermediate, soon to take R.I.B.A., Final or just qualified, for responsible work in Essex practice ten miles from London. Unfurnished one-bedroomed flat available if required. Salary by arrangement in accordance with age and experience. Five-day week, voluntary superannuation scheme.—Apply, by letter, to Midland Bank Chambers, Buckhurst Hill, Essex, or 'phone: BUC 2211.

SENIOR ARCHITECTURAL ASSISTANT Required in progressive office in Croydon. Salary by arrangement. Good opportunity for a man with initiative.—Write, full particulars, to GEORGE LOWE & PARTNER, 79 George-street, Croydon 3608/9.

OPPORTUNITIES for ASSISTANTS in newly-formed practice with wide interests. Hyde Park Corner office. Salary £900-£1,100. Summer holiday by arrangement.—BEL 6595.

DRAUGHTSMEN

ARCHITECTURAL DRAUGHTSMAN Required for a wide variety of industrial and commercial building projects, including some civil engineering work. Owing to continued expansion, we have a vacancy for a draughtsman with experience and initiative. Working conditions and prospects are good.—Please send details of age, experience and approximate salary required, to INDUSTRIAL DEVELOPMENT & CONSTRUCTION, Ltd., Industrial House, Stratford-upon-Avon.

R. C. FLOOR SPECIALISTS in Central London Require intelligent young detailer/draughtsman capable of taking-off quantities and estimating. Good salary and prospects for the right man.—Apply, Box 491, "The Builder."

SENIOR DRAUGHTSMAN Required. Preferably with experience of shop fitting. Permanent well-paid position. Attractive shopping benefits and other excellent staff vacancies.—Apply, Personnel Controller, BENTALLS, Ltd., Kingston upon Thames, Surrey.

REINFORCED CONCRETE DETAILER AND DRAUGHTSMAN Required. Five-day week, non-contributory pension scheme and bonus in operation.—Apply by letter to INDENTED BAR & CONCRETE ENGINEERING CO., Ltd., 171 Victoria-street, London, S.W.1.

YOUNG MAN

(20–28) required in drawing office for taking off and scheduling components of 'Middlesex' Prefabricated Buildings. Excellent salary, pension and sickness schemes and firm prospects of promotion in go-ahead concern.

Applications in writing to:—

Chief Architect,
J. E. Lesser & Sons Ltd.,
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DRAUGHTSMAN Required by firm of architectural decorators. Knowledge of period an advantage.—Apply, in writing, giving experience, G. JACKSON & SONS, Ltd., Rathbone Works, Rainville-road, Hammersmith, W.6.

DRAUGHTSMAN, with general joinery experience and/or light mechanical engineering. O.N.C. preferred but not essential. Holiday arrangement honoured. Pension and bonus schemes.—Written application, giving age, experience and salary required, to E. HILL ALDAM & CO., Ltd., Britannic Works, Red Lion-road, Tolworth, Surbiton, Surrey.

ALUMINIUM Curtain Walling, Entrances, etc. CHIEF DRAUGHTSMAN to take responsibility for development and detailing departments with this rapidly expanding company. This is a post carrying a high salary and executive prospects.—Write, full details, stating age, experience and salary required, to the Managing Director, AJAX ALUMINIUM, Ltd., London, S.E.28.

STOREFITTING TECHNICAL DRAUGHTSMAN Required. Must be experienced in the planning, detailing and coloured perspectives of shopfronts and interior fittings, etc. Salary by agreement. Bonus, canteen facilities.—Apply, by letter, giving details of experience, to Managing Director, HICKMAN, Ltd., North Circular-road, London, N.W.2.

HOUSING TRUST (W.C.2.) Requires Junior ASSISTANT to the Surveyor (A.R.I.C.S.) mainly for work in connection with modernisation programme. Neat draughtsman. Salary according to age and experience.—Write, full particulars, to Box 556, "The Builder."

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Multiple Clothiers and Outfitters. Require

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with sound knowledge of Building Construction. Shop fitting experience an advantage. Salary commensurate with experience. Profit Sharing, Pension, Life Assurance and Sick Schemes in operation. Holiday arrangements respected. Written applications stating age, experience, etc. to The Secretary, **Bradleys (Chester) Ltd., 36, City Road, Chester.**

SHOP-FITTING DESIGNER DRAUGHTSMAN

good artist, experienced detailing. Commencing £900 per annum.

Box No. 501, "The Builder"

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BIRMINGHAM Chartered Quantity Surveyors Require reliable ASSISTANT for Final Account work. Experience in taking-off an advantage.—Write, giving details of experience, age and salary required, to Box 245, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required for taking-off, working-up and Final Accounts. Varied and interesting work.—Please write, stating age, experience, qualifications and salary required, to KENNETH G. BARBER, Chartered Quantity Surveyor, 16 Pampisford-road, Purley, Surrey.

MANCHESTER FIRM of Chartered Quantity Surveyors Require ASSISTANT QUANTITY SURVEYOR, able to prepare Bills of Quantities under supervision. Intermediate R.I.C.S. standard; also MEASURING SURVEYOR, to measure work on site and prepare interim valuations and final accounts.—Reply to Box 133, "The Builder."

QUANTITY SURVEYOR who specialises in Final Accounts Required by Quantity Surveyors in Medway Towns. Good salary and overtime. Car owner an advantage. Two weeks' paid holiday this year.—Reply, giving brief details of experience and age, to Box 278, "The Builder."

ASSISTANT QUANTITY SURVEYOR (R.I.C.S. Final standard), age 25-35, Required by Gleeds, 106 Regent-street, W.1.—Please write giving details of experience and salary required.

QUANTITY SURVEYOR'S ASSISTANT Required in Wrexham, commencing salary £750 per annum.—Apply giving full particulars of age and experience to A. W. WEST, Westminster Bank Chambers, Church-street, Wrexham, Denbs.

NOTTINGHAM.—Chartered Quantity Surveyor with expanding practice Requires ASSISTANTS, R.I.C.S. Intermediate or Final standard.—Please apply in writing stating age, experience and salary required, M. E. G. FELTON, A.R.I.C.S., Oxford House, Oxford-street, Nottingham.

QUANTITY SURVEYORS (Inter. R.I.C.S. or I.Q.S.) Required for busy practice in South Yorkshire. Five-day week and non-contributory pension scheme in operation. Salary £700 to £950 per annum, according to age and experience.—Apply to Box 388, "The Builder."

QUANTITY SURVEYOR with experience of M. & E. contracts Required by Chartered Quantity Surveyors in Berkshire branch office. House available. Subsistence allowance. Five-day week.—Write full particulars to Box 408, "The Builder."

LONDON firm of Chartered Quantity Surveyors Require an ASSISTANT for their office in the Midlands. Measuring on site for interim valuations and preparation of final accounts. Varied contracts. Good prospects.—Write stating age, experience, etc., to Box 407, "The Builder."

CHARTERED QUANTITY SURVEYORS have vacancies for two young qualified QUANTITY SURVEYORS, one in Central London and the other in Essex, where a house would be available to rent if required. Interviews in London for both posts.—Write with full details of past experience to Box 467, "The Builder."

JUNIOR QUANTITY SURVEYOR for Consulting Civil Engineers. Progressive position, luncheon vouchers.—Apply, in writing, to C. H. DOBBIE AND PARTNERS, 58 Victoria-street, London, S.W.1.

QUANTITY SURVEYOR Required by Contractor's branch office in Pembrokeshire. Must be experienced with final accounts up to £200,000. An excellent opportunity with an expanding company.—Apply, WM. EAVES & CO., Ltd., 1a Spring Gardens, Haverfordwest, Pembrokeshire.

CHARTERED QUANTITY SURVEYORS urgently Require the following staff for offices in London and Harrogate: Senior and Junior TAKERS-OFF, Senior and Junior WORKERS-UP.—Apply, Box 503, "The Builder."

QUANTITY SURVEYOR Required by national firm of Building and Civil Engineering Contractors. Based on London office but would be required to travel in provinces. Qualifications preferred and previous all-round experience essential.—Write, giving personal details, previous experience, in confidence, to Box 502, "The Builder."

ASSISTANT QUANTITY SURVEYORS Required to work both in London head office and on sites in and around London. Must be conversant with both building and civil engineering contract procedure.—Reply, giving particulars of age, detailed experience, qualifications and salary required, to LEONARD FAIRCLOUGH (LONDON), Ltd., Gordon House-road, N.W.5.

QUANTITY SURVEYOR Required for two year civil engineering contract, near Chester.—Apply, F. C. CONSTRUCTION CO., Ltd., City-road, Derby.

JUNIOR ASSISTANT Required by Birmingham Quantity Surveyor for Working-up and Site Measuring. Excellent scope for advancement.—Apply, stating age, experience and salary required.—Box 538, "The Builder."

AUSTRALIA. Vacancies for TAKERS-OFF. See advert. under heading "Overseas Appointments."

A. MONK AND COMPANY LIMITED

Require the services of

QUANTITY SURVEYORS AND ASSISTANTS

for major civil engineering contracts in the South West Midlands. Salary according to age, experience and qualifications. Please reply stating age, previous experience and salary required to the Chief Surveyor at the Company's Head Office at Padgate, Warrington, Lancs. Replies will be treated in confidence.

MARRIOTTS OF THE MIDLANDS
require

SENIOR QUANTITY SURVEYOR

for Air Ministry Contract in Huntingdonshire. Considerable knowledge of W.D. Schedule is essential. Write, stating age, experience and salary required to :—

The Secretary
ROBERT MARRIOTT LIMITED,
Midland Works,
RUSHDEN, Northants.

QUANTITY SURVEYORS.

Preferably qualified, or nearly so, in expanding Quantity Surveying Section, for progressive position offering unique and excellent opportunities. Capable of all aspects of Quantity Surveying on contracts where successful applicants would be given full control to act on own initiative. Five day week, luncheon vouchers (or equivalent) and Pension Scheme. State age, experience and salary required, endorsing the envelope "PRIVATE AND CONFIDENTIAL" to

CHIPPINDALE & EDMONDSON,
CHARTERED ARCHITECTS,
EMPIRE HOUSE, PICCADILLY,
BRADFORD 1, YORKSHIRE.

QUANTITY SURVEYOR Required by firm of Chartered Quantity Surveyors in site office at Port Talbot, Glam. for long-term contract. Rented accommodation available.—Apply, stating age, experience and salary required, to Box 566, "The Builder."

SITE QUANTITY SURVEYOR for long-term contract at Newport, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Apply, stating age, experience and salary required, to Box 567, "The Builder."

TAKER-OFF/MEASURING SURVEYOR. Vacancy in Swansea/Llanelly site offices of firm of Chartered Quantity Surveyors.—Please apply, stating age, experience and salary required, to Box 568, "The Builder."

MEASURING SURVEYORS, with experience of Industrial Pipeline contracts. Required for site offices in North-East England and Midlands.—Write, stating age, experience and salary required, Box 570, "The Builder."

QUANTITY SURVEYOR'S ASSISTANT Required in medium size office in York. Every opportunity will be given for advancement. Please reply, stating age, experience, qualifications and salary required. Travelling expenses for interview will be reimbursed. —Box 563, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required by S.W.16 London building contractors to measure sub-contractor's accounts, site measurements, bonus surveying.—Apply, stating age, experience and salary required, to Box 557, "The Builder."

WEST END firm of Chartered Quantity Surveyors have vacancies for ASSISTANT SURVEYORS. Will consider R.I.C.S. Intermediate examination level or qualified. Work mainly in connection with site measurement and final accounts, occasional taking-off. Please write, stating experience and salary required. Successful applicant required to start at beginning of September.—Apply, Box 554, "The Builder."

TAKER-OFF/MEASURING SURVEYOR Required by Chartered Quantity Surveyors for site office, North Kent.—Please write, stating age, experience and salary required, to Box 569, "The Builder."

SURVEYORS

SURVEYOR Required for Premises Department of City insurance company. Age 22-25. Competence in preparation of specifications, working drawings for alterations, etc. essential. Non-contributory pension scheme. Five-day week.—Full particulars of experience, etc., and salary required, to Box 497, "The Builder."

SURVEYOR Required in West End office to prepare Specifications, Schedules and Plans for small works and alterations. Ability to carry out structural Surveys an advantage. Opportunity available to obtain Quantity Surveying experience is desired. Salary according to experience.—Apply, by letter only, giving full particulars of career, to CYRIL I. SILVER, F.R.I.C.S., 42 Baker-street, W.1.

MEASURING SURVEYOR/TAKER-OFF for London Quantity Surveyors, able to handle Interim Valuations, Deviations and Final Accounts. Must be willing to travel. Salary according to experience and ability.—Box 934, "The Builder."

SURVEYOR/OUTSIDE SUPERVISOR. To control single house conversions S.E./S.W. London. Variations, valuations, final accounts, etc.; car allowance.—Age, details of experience and salary required to Box 920, "The Builder."

CHARTERED BUILDING SURVEYOR (City) Requires JUNIOR ASSISTANT. Neat draughtsman, with some office experience. Commencing salary £400/£500.—Apply fully, Box 155, "The Builder."

BRISTOL CHARTERED QUANTITY SURVEYORS Require site-measuring ASSISTANTS. Luncheon voucher scheme.—Write, stating age, experience and salary required, to Box 166, "The Builder."

MEASURING SURVEYOR (A.R.I.C.S. preferred) Required by London firm of Quantity Surveyors. Five-day week. Pension and Life Assurance scheme. Salary £1,650 per annum. Car provided.—Write stating age and experience, Box 353, "The Builder."

TWO EXPERIENCED

BUILDING SURVEYORS

required for progressive Builders and Contractors for interesting and responsible work mainly in the London area. Capable of assisting in the management of large contracts from enquiry to final account. Apply in writing,

Richardson, Herbert House, Slade Green, Erith, Kent.

MEASURING SURVEYOR

required by expanding firm of Painting Contractors for Valuations and Final Accounts. Resident in London, age 25-40. Applications will be treated with utmost confidence. Please write giving full details to;—

G. & C. WHITTLE LTD.,
Cleveland Works,
Cleveland Road, Acton Green, W.4.

BERNARD SUNLEY & SONS LTD.
require

SENIOR SITE SURVEYORS

Owing to continuing expansion a limited number of first-class Senior Site Surveyors are to be appointed immediately for Contracts in the London and Home Counties Areas. Contractor's Surveyors, well experienced in the preparation of Interim and Final Accounts, and having knowledge of Site Labour Costing, keen to join the permanent staff of a live and expanding organisation, should apply with brief details to Chief Surveyor,

Bernard Sunley & Sons Ltd.,
25 Berkeley Square, W.1. MAYfair 9090.

IMPERIAL CHEMICAL INDUSTRIES LIMITED

Billingham Division and Heavy Organic Chemicals Division

require in their Quantity Surveying / Estimating Sections

QUANTITY SURVEYORS

to meet an expanding construction programme. Candidates must be capable of taking off and estimating civil work associated with large industrial plants and must have had civil engineering experience with some five years' quantity surveying experience.

R.I.C.S. approved office
Progressive appointments
Attractive salaries
Profit-sharing Scheme
Pension Fund
Removal expenses for married men

Write giving brief details of age, qualifications and experience to the **Staff Manager, Imperial Chemical Industries Limited, Billingham Division, Billingham, Co. Durham,** quoting reference S/HH 2.

SENIOR SURVEYOR

required by

A. E. SYMES LTD.

Must be fully capable of dealing with sub-Contractors, interim applications, variations and final accounts on all types of contracts. Good salary and working conditions. Pension and life assurance schemes.

Write in first instance with full details to:—

Chief Surveyor,
236-252, High Street,
Stratford, London, E.15.

SURVEYOR'S ASSISTANT Required in Surveyor's Department of holiday organisation. Minimum three years' experience in maintenance repairs and small building works. Office N.W. London. Superannuated post. State salary required.—Reply, with full particulars, to Box 3756, E. G. DUNSTAN & CO., Drayton House, Gordon-street, W.C.1.

SURVEYORS

An opportunity exists with national contractor offering promotion and advancement to suitable applicants for the following positions :—

SENIOR SURVEYOR
MEASURING SURVEYORS

Required initially for large building contract in West London. Experienced in measurement for all trades for final account, and measuring and settling sub-contractors' accounts. Able to work with minimum supervision.

Apply in writing to
Box No. 525 'The Builder'

PARTITIONING & ACOUSTIC CEILING SPECIALISTS

COMPACTOM LTD.,

Oxgate Lane, Cricklewood, N.W.2.

This expanding Organisation offers permanent appointments with good prospects for the following:—

CONTRACT SURVEYORS

To measure with Quantity Surveyors and prepare interim and final accounts.

ESTIMATORS

With joinery or acoustic ceiling estimating experience.

Non-contributory Staff Pension Scheme.

Write to Managing Director stating experience, age and salary required.

SURVEYOR
(ASSISTANT)

with experience in valuations, measuring Sub-Contractors and bonusing.

Good conditions and pension scheme.

Written applications only please.

PATMAN & FOTHERINGHAM LTD
15, Islington Park Street, London, N.1.

SENIOR COST AND BONUS SURVEYOR Required by prominent London Contractor to take charge of a section covering several important contracts. Must be well experienced in the assessment of targets and site negotiations, and also in the preparation of unit costing returns. Progressive and interesting position for the right applicant.—Write in confidence giving full details of experience in chronological order, and salary required, to Box No. SC.3583, A.K. ADVTG., 212a Shaftesbury-avenue, London, W.C.2.

A QUALIFIED BUILDING SURVEYOR Required in estates department of large manufacturing company in the Midlands, to assist with the preparation of plans and specifications and supervision of repairs and improvements. Age about 23-30. Car driver an advantage.—Applications, stating age and giving details of education, salaries earned and experience, should be sent to Box TB.487, c/o Hanway House, Clark's-place, E.C.2.

SENIOR SURVEYOR (27/35) Required by Croydon Contractor, capable of leading section with Assistants of L.I.O.B. standard handling contracts ranging from £1,000 to £100,000. This is a key position with excellent prospects of advancement (further details at interview). Apply in strict confidence stating age, training, qualifications, experience and salary required. Existing staff has been informed.—Box 464, "The Builder."

TECHNICAL ORDER SURVEYORS Required by WILSON LOVATT & SONS, Ltd., for interesting work in the Home Counties. Every opportunity to capable men to gain good experience in all departments of building. Contributory pension scheme in operation after probationary period.—Apply, in writing, giving brief details of training and salary required, to 16 Grosvenor-crescent, London, S.W.1.

SENIOR SURVEYOR Required to operate on the Liverpool office of a national building and civil engineering company. Good salary offered, together with annual bonus; pension scheme in operation.—Applications, stating age and qualifications, to the General Manager, WILLIAM MOSS & SONS, Ltd., Yardley-road, Kirkby Industrial Estate, Liverpool.

MEASURING SURVEYORS, Senior and Junior, principally for work in London area.—Apply, giving details of experience and salary required, to OSWALD E. PARRATT & PARTNERS, Adelaide House, London Bridge, E.C.4.

MEASURER Required for our Precast Concrete Division. Applicants should be between 23 and 30 years of age. We work a 5-day week and operate pension and profit-sharing schemes. Our office (own canteen) is a few minutes only from Waterloo Station.—Please reply stating age and experience to Mr. T. M. Robinson, TRUSCON Ltd., 35-41 Lower Marsh, London, S.E.1. Tel.: WATerloo 6922.

BUILDING SURVEYOR Required in Architects' office. Must be a good draughtsman and fully experienced in contemporary construction and site supervision, with ability to take charge of contracts from design stage onwards. Prospects for man with keenness and interest in industrial and commercial building. Salary around £1,250 per annum.—Write, full particulars, A. F. HARE, F.R.I.B.A., 24 Baker-street, London, W.1, marked "Personal."

BUILDERS' SURVEYOR urgently Required in busy N.W. London office. Site measuring, valuations and final accounts. Experienced in measuring from drawings and specifications for estimating purposes essential, and estimating experience an advantage.—Write, giving full details of previous experience and salary required, to E. J. LACY & CO., Ltd., Steele-road, N.W.10.

LESLIE & Co. Ltd.

invite applications immediately for

MEASURING SURVEYOR

for their Basildon, Essex area office

and

BONUS SURVEYOR

based at London head office.

These posts carry an attractive salary, good annual bonus and non-contributory pension scheme. Apply to:

The Secretary,
Leslie & Co. Ltd.,
Peel Street, Kensington, W.8.

SURVEYOR

Ford & Walton Ltd. require a Builders Surveyor fully experienced in taking off quantities, interim applications and the preparation of final accounts and able to work completely on his own initiative

Employment will be at Stratford E.15 until January 1961 when the company is moving to new headquarters being built at Wembley Park, Middx.

Application in own handwriting stating age, experience, qualifications and salary required are invited from men between the ages 25 or 30 and should be sent to Chief Surveyor

Ford & Walton Ltd.,
Walton House,
Warton Road,
Stratford, London, E.15.

CONTRACTORS' SENIOR SURVEYOR

Required South London

Experienced in Contract Supervision, Interim Valuations, Final Measuring, etc. Age 25–35. Remuneration £1,100 p.a. plus Bonuses. Superannuation scheme. Use of Car. Write, giving experience, etc., to:

Box No. 511, "The Builder"

SURVEYOR

required for contracts within a 60 mile radius of the Company's Head Office. Experienced in site measuring, interim valuations, final accounts, and taking of quantities for estimating purpose; some experience in estimating an advantage, but not essential. Write full particulars in confidence to Chief Surveyor,

Industrial Development & Construction Ltd.,
Industrial House,
Stratford-upon-Avon.

Leading firm of Building and Civil Engineering Contractors

have a vacancy in their Structural Engineering Section for a

SENIOR SURVEYOR

well experienced in the preparation of interim calculations, measurement of variations, and preparation of final accounts. The successful applicant will be based in the central London Head Office, and will be given the immediate responsibility for a new and interesting project in central London. The position is permanent and pensionable, and offers good opportunities for progress within an expanding organisation.

Please send full details, in confidence, to **Box No. LF 3603, A.K. Advg., 212a, Shaftesbury Avenue, London, W.C.2.**

WILLMANT BROS. Ltd. Require a SURVEYOR, age 25/30, to measure excavation in London. Based near Blackfriars, but apply initially to 462 London-road, Isleworth, Middlesex.

REQUIRED: PLUMBING SURVEYOR. Good prospects, good salary.—Box 394, "The Builder."

Michelin Tyre Co. Ltd., Stoke-on-Trent, Staffs.

require for their Building Department a

QUANTITY SURVEYOR

Aged 25-35, Inter-R.I.C.S. or equivalent, with good all round experience preparation Bills of Quantities and Maintenance Schedules, estimating and measuring for final accounts. The work does not normally involve travelling. 5 day, 40 hour week. Contributory Pension and free Life Assurance Scheme. Housing available if necessary, removal expenses paid. Commencing salary up to £1,000 according to qualifications and experience.

N.B.—Stoke-on-Trent is not in "The Black Country" and the factory is quite close to rural areas.

Please write to Mr. A. C. McCombie at above address for application form quoting Ref. B/583/TB.

Building and Civil Engineering Contractors

operating on a National scale require the services of a

BUILDING SURVEYOR

for the Peterborough Area

Apply: Building Manager, Box No. 419 "THE BUILDER"

COST SURVEYOR, experienced, Required for Head Office appointment in S.W. London with international concern. Must be fully conversant with all aspects of civil engineering. Age 24-28.—Reply, THYSSEN (Ref. U.C.O.), Westleigh House, 42 Coombe-road, New Malden, Surrey, or ring MALden 8640.

CUBITTS

HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN) LTD.

invite applications from

COST AND BONUS SURVEYORS

experienced in measuring completed site works and assessment of targets. Permanent and pensionable positions with good prospects.

Apply in confidence, stating age, experience in detail and salary required to:

PERSONNEL MANAGER (K.3438),
1 QUEEN ANNE'S GATE,
LONDON, S.W.1.

MEASURING SURVEYOR

required for most interesting work in and around London, Portsmouth, Southampton, Basingstoke, Guildford and surrounding areas. Main qualifications required are enthusiasm and keenness. Excellent salary and bonus.

Box No. 531 'The Builder'

BUILDING SURVEYOR

required

Excellent prospects in small but progressive firm for suitable man (27-35). Full details and salary required to:—

BRACKLEY BUILDERS LIMITED.
North Bar Place, Banbury, Oxon.

COSTING SURVEYOR Required by large company of building contractors operating mainly in the Home Counties. Good salary and prospects for right applicant.—Apply Chief Surveyor, McMANUS & CO., Mimms Hall-road, Potters Bar, Middlesex.

SURVEYORS Required by large company of building contractors operating mainly in the Home Counties. Good salary and prospects for right applicants.—Apply stating age and experience to Chief Surveyor, McMANUS & CO., Mimms Hall-road, Potters Bar, Middlesex.

ASSISTANT SURVEYORS

ASSISTANT Required to Building Surveyor. Must have experience in estimating and general duties.—Please apply, in writing, to MESSRS. C. H. STIDWORTHY, Ltd., Battledown Works, Hales-road, Cheltenham.

REQUIRED: ASSISTANT SURVEYOR for Plumbing section. Good opportunity for progress.—Box 375, "The Builder."

EXPERIENCED ASSISTANT SURVEYORS, aged 21-26. Required initially for large contracts in the Reading area, to carry out general surveying duties under the supervision of a Senior Site Surveyor. Excellent opportunity for keen younger Surveyors to progress with a large and expanding National Contractor. Minimum qualification O.N.C.—Apply, Chief Surveyor, BERNARD SUNLEY & SONS, Ltd., 25 Berkeley-square, W.1. MAYfair 9090.

ASSISTANT SURVEYOR Required. Competent and experienced Building Surveyor Required for West End office dealing with interesting and varied work. Good draughtsmanship an advantage.—Write, stating age, experience and salary required, Box 512, "The Builder."

ASSISTANT BUILDING SURVEYOR (age about 25) Required to work under direct supervision of partner. Progressive position.—Apply, Frank Durrant, WESTMORE & REEVES, 121 Cheapside, E.C.2.

ASSISTANT SURVEYOR/ CONTRACT MANAGERS

required by

A. H. ANDERSON LIMITED

This Company which, in connection with its method of construction known as A.75, provides a comprehensive design and management service, requires young, experienced surveyor trained contracts managers, able to control several contracts using timber, steel and concrete components, under supervision, ranging from about £10,000 to £100,000. This is a real opportunity for the right men in a young expanding Company. Applications in writing to the

Managing Director,
A. H. Anderson Limited,
66 Victoria Street, London, S.W.1.

ASSISTANT SURVEYOR

Required by West End Building Contractors for measuring bonus work and as General Assistant to Senior Surveyor.

Good opportunity to widen experience on the £30,000 to £80,000 type of building contract. Annual bonus on results and Pension Scheme. Please reply to

Box 274
"The Builder"

JUNIORS

YOUTH Required by London Chartered Quantity Surveyors. Every opportunity and encouragement to learn the profession. Details of education, etc., to Box 477, "The Builder."

JUNIOR Required for general office duties by large company of building contractors based at Potters Bar. Good salary for bright young man.—Apply Chief Surveyor, McMANUS & CO., Mimms Hall-road, Potters Bar, Middlesex.

TAKERS OFF

JUNIOR TAKER-OFF Required by R. T. DAY AND PARTNERS.—Please write, stating age, details of experience and salary required, to Hill House, 69 Warley Hill, Brentwood, Essex.

YOUNG ambitious TAKER-OFF, with some knowledge of estimating and at least 8 years' experience in a Quantity Surveyor's office, Required as personal assistant to partner and chief estimator in connection with large industrial project. Good prospects. Commencing salary £1,200 p.a. plus overtime.—Box 284, "The Builder."

SENIOR TAKER-OFF (A.R.I.C.S.) Required for permanent position in office of London Quantity Surveyors. Salary £2,000 per annum. Pension and Life Assurance scheme, 5-day week.—Write stating experience and age to Box 352, "The Builder."

JUNIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £800 to £900 p.a.—Reply in writing stating age and experience to Box 979, "The Builder."

TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,000 to £1,200 p.a.—Reply in writing stating age and experience to Box 984, "The Builder."

SENIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,200 to £1,500 p.a.—Reply, in writing, stating age and experience to Box 961, "The Builder."

TAKER-OFF of Intermediate to Final standard Required by Westminster Quantity Surveyors. Excellent prospects in London Office and opportunities for overseas tours.—Apply, stating age and experience, Box 923, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers. Five-day week.—Write stating age, experience and salary required to Box 991, "The Builder."

JUNIOR TAKER-OFF Required by Central London firm of C.Q.S. (A.R.I.C.S. preferred). Salary £750-£950. L.Vs. Five-day week and holiday this year. —Box 982, "The Builder."

SENIOR and JUNIOR TAKERS-OFF Required by West End Chartered Quantity Surveyors for permanent staff.—Write, stating age, experience and salary required, to Box 908, "The Builder."

TAKERS-OFF of Intermediate to Final Standard Required in the Oxford and Aylesbury offices of HENRY COOPER & SONS.—Apply, stating age, experience and salary required, and office preferred, to 51a Cornmarket-street, Oxford.

TAKER-OFF Required by Reinforced Concrete Specialists. Five-day week and non-contributory Pension scheme.—Please reply giving particulars of experience and salary to Box 395, "The Builder."

TAKER-OFF (recent A.R.I.C.S. or this year's finalist) Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment to work on large and interesting projects. Pension scheme. Luncheon vouchers.—Write full particulars to Box 409, "The Builder."

AN opportunity for a TAKER-OFF with a sound professional training to join an expanding firm of Chartered Quantity Surveyors offering varied and interesting duties including following contracts through to completion. Team spirit essential.—Please write stating age, experience and present salary to RAYMOND PLAYLE, A.R.I.C.S., 96 Eltham-road, S.E.12.

TAKERS-OFF Required, Senior and Junior.—Apply, in writing, with particulars of experience and salary required, to BOND, FOSTER & PARTNERS, 19 Hertford-street, Park-lane, London, W.1.

EXPERIENCED TAKER-OFF Required by London (W.C.2.) firm of Chartered Quantity Surveyors with widely varied practice.—Please reply giving details of experience, age and salary required, to Box 468, "The Builder."

TAKER-OFF Required in Manchester office of firm of Quantity Surveyors.—Please write, stating age, experience and salary required, to Box 508, "The Builder."

TAKERS-OFF Required, Senior and Junior. Five-day week and pension scheme.—Apply, giving age, experience and salary required, to OSWALD E. PARRATT & PARTNERS, Adelaide House, London Bridge, E.C.4.

EXPERIENCED TAKER-OFF Required in West End London Quantity Surveyor's office.—Reply stating age, experience and salary required to Box 521, "The Builder."

AUSTRALIA. Vacancies for TAKERS-OFF. See advert. under heading "Overseas Appointments."

YOUNG, ambitious TAKER-OFF, with some knowledge of estimating and at least 8 years' experience in a Quantity Surveyor's office. Required as PERSONAL ASSISTANT to partner and chief estimator in connection with large industrial project. Good prospects. Commencing salary £1,200 per annum, plus overtime.—Box 553, "The Builder."

SENIOR ASSISTANT Required by London firm of Chartered Quantity Surveyors. Salary up to £1,450 per annum, according to age and experience. L.Vs. Five-day week. Overtime paid and pension scheme. —Please apply to Box 571, "The Builder."

JUNIOR TAKER-OFF Required by firm of Chartered Quantity Surveyors in London (A.R.I.C.S. preferred). Salary £750/£950. Luncheon vouchers. Pension scheme. Overtime paid.—Please write, stating age and experience, to Box 572, "The Builder."

GARDINER & THEOBALD have permanent staff vacancies in their London office for Senior and Junior TAKERS-OFF. Luncheon vouchers. Pension scheme. Holiday arrangements respected.—Please write, stating age and experience, to 49 Bedford-square, London, W.C.1.

SENIOR TAKERS-OFF Required by Chartered Quantity Surveyors near Victoria Station. Five-day week, luncheon vouchers. Overtime at increased rate. Top salary for proved experience.—Write giving details to Box 578, "The Builder."

TAKER-OFF Required, recently qualified or final standard, £900-£1,100 per annum basic commencing salary or according to experience. Holiday arrangements respected.—V. J. MENDOZA, A.R.I.C.S., 138 Gloucester-place. PAD 4527.

JUNIOR TAKER-OFF Required. Five-day week. Bonus scheme.—Apply, in writing, giving full details of previous experience and salary required, to LESLIE J. NEWTON & PARTNERS, 9-10 Staple Inn, London, W.C.1.

TAKER-OFF Required. Inter to Final standard.—BRYDEN & WOODFORD, Chartered Quantity Surveyors, 33 Catherine-place, S.W.1. (VIC 0924.)

WORKERS UP

WORKER-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply stating age and experience to Box 980, "The Builder."

SENIOR WORKER-UP for London Quantity Surveyors.—Write stating age, details of experience and salary required, to Box 953, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

WORKER-UP Required. Salary range £620 to £950 according to age and experience. Compulsory superannuation. Five-day week.—Apply R. C. Steel, A.R.I.B.A., Chief Architect, C.W.S. Ltd., 99 Leman-street, E.1.

WORKER-UP for Kensington Quantity Surveyors. Five-day week.—Reply, stating age, experience and salary required, to WALLIS, GILBERT & PARTNERS, 5 Cromwell-road, South Kensington, S.W.7.

EXPERIENCED WORKER-UP Required by London firm of Quantity Surveyors. Salary £1,000 per annum. Pension and Life Assurance scheme. Five-day week. Write stating age and experience.—Box 354, "The Builder."

SENIOR WORKER-UP Required by Chartered Surveyors, Westminster. State experience, age and salary required, to Box 356, "The Builder."

WORKERS-UP Required, Senior and Junior for office of Chartered Quantity Surveyors in the Holborn area.—Box 913, "The Builder."

WORKER-UP Required in London office by firm of Chartered Quantity Surveyors.—Apply, stating age, experience and salary required, to Box 159, "The Builder."

EXPANDING Chartered Quantity Surveyors Require WORKER-UP with at least three years' professional experience. Team spirit essential.—Write, stating age, experience and present salary, to RAYMOND J. PLAYLE, A.R.I.C.S., 96 Eltham-road, S.E.12.

WORKERS-UP Required, Senior and Junior.—Apply in writing, with particulars of experience and salary required, to BOND, FOSTER & PARTNERS, 19 Hertford-street, Park-lane, London, W.1.

WORKERS-UP with at least 3 years' experience Required by London Chartered Quantity Surveyor in Bloomsbury district.—Please reply stating age, salary required and experience to Box 469, "The Builder."

WORKER-UP Required in Manchester office of firm of Quantity Surveyors.—Please write, stating age, experience and salary required, to Box 509, "The Builder."

WORKERS-UP Required, Senior and Junior. Five-day week and pension scheme.—Apply, giving particulars of experience and salary required, to OSWALD E. PARRATT & PARTNERS, Adelaide House, London Bridge, E.C.4.

EXPERIENCED WORKER-UP Required in West End London Quantity Surveyor's office.—Reply stating age, experience and salary required to Box 522, "The Builder."

BIRMINGHAM. WORKER-UP Required by Quantity Surveyor. Future opportunities for Site Measuring and Taking-Off. 5-day week. Salary £650 per annum, plus overtime if required.—Box 537, "The Builder."

WORKER-UP Required in small Quantity Surveyors' office. Varied work and good prospects. 5-day week.—CLARK & GEARING, 16 Dominion-street, E.C.2. MONarch 0597.

URGENTLY Required, two young, capable, energetic and enthusiastic WORKERS-UP for permanent posts in busy Beaconsfield branch office of London quantity surveyors.—Box 542, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors near Victoria Station. Duties will include assistance in development of Computer system.—Write giving age and experience to Box 579, "The Builder."

WORKER-UP Required by West End Chartered Quantity Surveyors with medium size office. Five-day week. Luncheon vouchers. Holiday arrangements respected.—Write giving age, experience and salary required to Box 565, "The Builder."

AN opportunity occurs for experienced person with initiative to develop working-up section in small busy Holborn practice. Salary £800, L.Vs., five-day week.—Reply, stating age and experience, to Box 577, "The Builder."

SMALL office Holborn Q.S. have vacancy for WORKER-UP (Inter. level). Required 50 per cent. measuring up, etc. under guidance.—Write stating age, experience and salary required, Box 589, "The Builder."

EXPERIENCED WORKER-UP Required for permanent situation in London professional office. Basic salary up to £1,000 per annum.—Box 552, "The Builder."

WORKER-UP for long-term contract at Newport, Mon. Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Please apply, stating age, experience and salary required, to Box 573, "The Builder."

GARDINER & THEOBALD have permanent staff vacancies in their London office for WORKERS-UP. Luncheon vouchers. Pension scheme. Holiday arrangements respected.—Please write, stating age and experience, to 49 Bedford-square, London, W.C.1.

WORKER-UP. Vacancy in Swansea/Llanelly site offices of firm of Chartered Quantity Surveyors.—Please apply, stating age, experience and salary required, to Box 574, "The Builder."

ENGINEERS

SENIOR and JUNIOR SITE ENGINEERS and QUANTITY SURVEYORS are Required for Civil Engineering and Building Contracts in England and Wales. These are permanent positions with good prospects. Bonus and Superannuation Schemes in operation.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications and salary required and should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING Ltd., Ettingshall, Wolverhampton.

CIVIL ENGINEERING ASSISTANTS Required in Chief Architect's Department of George Calverley & Sons (Contractors) Ltd. Applicants should have a sound knowledge of: Land surveying on a large scale; Roads and Sewer Work. The department is an expanding one and ample opportunity exists for advancement. A staff pension scheme is in operation for those wishing to make a career with the Company.—Apply, in writing, stating particulars of training, positions held and present salary, to J. L. Heap, A.R.I.B.A., Chief Architect, GEORGE CALVERLEY & SONS (CONTRACTORS), Ltd., Evington Valley-road, Leicester.

SETTING OUT ENGINEER Required for Contracts in U.K. Good conditions, salary, car allowance and pension scheme in operation.—Write, giving full particulars, to Box 518, "The Builder."

CONCRETE ENGINEER. DUCTUBE-UDALL Ltd. Require ENGINEER aged 25-35 with site experience and sales capabilities. Must be prepared to travel. Excellent salary, progressive opportunities, preferably car owner (generous allowance).—Write 64-66 Battersea High-street, S.W.11 or 'phone BAT 9221.

YOUNG CIVIL ENGINEER Required by old-established Builders to supervise concrete works on several contracts, all in London area, and advise the foreman in charge. Car provided, pension scheme in operation and fair salary and bonus paid.—Write giving details of career and experience to Box 527, "The Builder."

ESTIMATORS

JOINERY ESTIMATOR. Must be first-class man. Expanding and fully equipped business in Crystal Palace area. Opportunity to join personal firm with eventual sole charge. Great variety of very high-class work. Some shop-fitting.—Write details and salary, in confidence, Box 489, "The Builder."

PLASTERING CONTRACTORS Require ESTIMATOR/SURVEYOR, aged 30-35 years, as manager for a newly-formed branch establishment in Bournemouth.—Applicants must have been previously employed by a specialist plastering contractor and should apply in writing, giving details of previous experience and salary required, to the H.A.T. GROUP OF COMPANIES, 3/5 St. Paul's-road, Bristol 8, quoting reference E.S.B.

ASSISTANT TO ESTIMATOR, fully experienced in final accounts, buying, ordering, tender enquiries, etc. Surrey builders.—Box 287, "The Builder."

ESTIMATOR/SURVEYOR Required for small works department. The position would be filled best by a young man 24/28 years of age with a good training and some experience in taking-off quantities and preparing estimates from specifications and drawings. After a short probationary period the position will become permanent and pensionable.—Apply, in writing, stating age, particulars of general and technical education, experience and salary anticipated, to DEARSLEY & CARTER, Ltd., 91/3 King-street, W.6.

J. M. JONES & SONS LTD.

require for their

SMALL WORKS DEPARTMENT

ESTIMATOR—SURVEYOR

This position is a progressive one with Staff Pension and Life Assurance Schemes, assistance with housing if required. Apply stating age, details of general education and technical education, qualifications if any, names of previous employers and in what capacity and, in confidence, details of present appointment, and commencing salary required, to the Secretary,

J. M. Jones & Sons Ltd.,
Highway Works, Maidenhead.

ESTIMATORS SENIOR & ASSISTANT

Required immediately. Must be fully experienced in pricing all types of B. & C.E. Works. Pension and Life Assurance Scheme. Apply full details, age, experience, salary required, to :—

Managing Director,
F. R. HIPPERSON & SON LTD.,
Invicta House,
Dagenham, Essex.

ENGINEERS

ENGINEERS required for large contract shortly to commence in West London. Applicants must be used to accepting responsibility and working with maximum accuracy.

Excellent opportunity for promotion and advancement for the suitable applicants.

Apply in writing to

Box No. 526 'The Builder'

THE TAYLOR WOODROW GROUP

Applications are invited from capable

BUILDING ESTIMATORS

To work in the London Offices situated at Southall and Ealing on varied and interesting tendering for all forms of building contract work in the United Kingdom and Overseas.

Write, giving brief details of personal history, to:—

Personnel Manager,
Taylor Woodrow Services Limited,
Western House, Western Avenue,
EALING, London, W.5

ASSISTANT ESTIMATOR/SURVEYOR

required by

A. H. ANDERSON LIMITED

This Company which, in connection with its method of construction known as A.75, provides a comprehensive design and management service, requires a young, experienced man, able to estimate and prepare final accounts under supervision for various projects using timber, steel and concrete components.

Applications in writing to R. Katis, Chief Surveyor,

A. H. Anderson Limited,
66 Victoria Street, London, S.W.1.

YEOMANS & PARTNERS LTD.

require a

SENIOR ESTIMATOR

for Building works up to £100,000 in value. We think the right man for this job should be aged about 30/35 with concentrated experience on this range of contract, preferably with two or three firms only.

The successful applicant would be able to share in the prosperity he creates. There is an annual bonus on results. We operate a non-contributory Pension Scheme.

Please send details of age, early training, positions held and salary range contemplated.—Address replies in confidence to **Mrs. Wright, at 44, Upper Berkeley Street, London, W.1.**

ESTIMATOR/SURVEYOR

required by

OPUS LTD.

Applicants should be fully experienced in pricing bills of quantities for Contracts up to £100,000 and preparing estimates from drawings.

The position is permanent and carries a good salary and pleasant working conditions for the right man.

Apply in writing giving details of age, experience and salary required to :

20, TELFORD AVENUE,
LONDON, S.W.2.

YEOMANS & PARTNERS LTD.

require an

ESTIMATOR/SUPERVISOR

for alterations and good class decorations.

The applicant should be aged about 30 and have had some years of experience with a West End of London Firm.

A high standard of estimating experience and ability to organise contracts up to £10,000 in value is required.

We operate an annual bonus scheme and non-contributory Pension arrangement.

Will applicants please state their age and give chronological list of experience, training and positions held and address replies in confidence to Mrs. Wright at **44 Upper Berkeley St., London, W.1.**

ESTIMATOR and **BUILDING SURVEYOR** Required for company operating in the Home Counties. Applicants should be fully experienced in Estimating. Taking-off Quantities and capable of working from drawings and specifications and preparing interim and final accounts.—Write giving details of salary required to Box 400, "The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required, West London. Capable of taking-off quantities, pricing small contracts. Aged about 25. Progressive position. Good salary and paid overtime. Pension scheme. Five-day week. Holiday arrangements honoured.—Write Box 396, "The Builder."

ASSISTANT ESTIMATOR/SURVEYOR for established builder. The position would suit keen young man with some experience in Site Measuring, Taking-off quantities and preparing estimates from Specifications and Drawings. Good prospects and training to suitable applicant.—Write, giving age, experience, etc., to RUSSELL BROS. (PADDINGTON), Ltd., 421 Harrow-road, London, W.10.

ESTIMATOR/SURVEYOR Required in General Works Department of busy London Builders. Capable of handling enquiries and supervising jobs up to final Account.—Please write, with full details of age, experience, and salary, to Secretary, KILLBY & GAYFORD, Ltd., 87 Worship-street, E.C.2.

ESTIMATOR/SURVEYOR Required for small works department of West London Contractors. Age up to 45. Applicants must have at least 3 years' experience small works. Good salary and contributory pension scheme after satisfactory probationary period.—Write with full details and salary required to Box 479, "The Builder."

ESTIMATOR/SURVEYOR Required for Builders and Contractors. Good prospects, pension scheme and excellent working conditions.—Write, stating age, experience and salary required, to BAILEYS (BUILDERS & CONTRACTORS), Ltd., 2a Albert-road, New Malden, Surrey.

EXPERIENCED ESTIMATOR Required by Yorkshire firm of Building Contractors. Good opportunity with progressive company. Pension scheme in operation.—Write, stating age, experience and previous employers, and salary required. Box 510, "The Builder."

ESTIMATOR'S ASSISTANT Required by City Builders. Keen and energetic young man with experience of measuring in either Builders' or Quantity Surveyors' offices. Typing an advantage. —Box 263, "The Builder."

ESTIMATOR/FOREMAN for small building firm, old-established, S.W. London. Good knowledge of maintenance and conversion work. State experience and salary required.—Apply Box 560, "The Builder."

ESTIMATOR wanted for work-up to approximately £50,000; experience in taking-off own quantities essential; age group 30-35.—Write, with full details of experience and salary required, to BRAZIER & SON, Ltd., 303-305 Portswood-road, Southampton.

BUILDING ESTIMATOR

With experience of estimating for general building and R.C. work up to a value of £200,000—£250,000 required by growing medium sized firm, operating mainly in central Yorkshire.

Applicants, preferably in the 30-40 age group, must have had not less than five years experience in a similar position, and be able to work on own initiative under Managing Director.

The post offers excellent opportunities for right type and carries good salary, bonus and pension scheme. Car provided and assistance with housing if required.

Send full details—in strict confidence—and salary required to: **The Managing Director**
Walter G. Birch (Harrogate) Ltd.,
Montpellier House, Harrogate.

LOVATT, WOLVERHAMPTON

ESTIMATOR

We have a vacancy in our Estimating Department at Wolverhampton for an experienced Estimator age 30 years or over. Previously employed by similar company and experienced in estimating for major building works. The appointment is permanent and will carry a good salary with pension scheme, etc. Applications will be treated in strict confidence and should be addressed to the

Personnel Manager,
Wilson Lovatt & Sons Ltd.,
Clarence Street, Wolverhampton.

ESTIMATOR/SURVEYOR

required, medium sized South London Contractors, progressive position. Salary not less than £1,000 p.a.

Box No. 462 "The Builder"

ESTIMATOR/SUPERVISOR

required for Building and Decorating firm in West Middlesex. Specialising in alterations and decorations up to £5,000. Must be able to work on own initiative. Car driver preferred. Write, stating age, experience and salary required, to:

Box No. 196, "The Builder"

ESTIMATOR/SURVEYOR

required by progressive firm N.E. London. Excellent prospects for suitable applicant. Apply in writing, stating age, experience and salary required to

Box No. 921 "The Builder"

MANAGERS

DEPUTY to Area Manager Required. Good prospects for keen man with drive and organising abilities. Must be able to produce results and experienced in shuttering.—Apply, SGB SHUTTERING, Ltd., Pontefract-road, Stourton, Leeds, 10. Telephone: Leeds 72951.

OFFICE MANAGER wanted site near Manchester, 15 months' duration but permanent and pensionable post for right man.—Write full details experience state age and salary required.—Box 373, "The Builder."

CONTRACTS MANAGER

Required immediately by builders in the London area.

Age limit 45 years.

Preference to holders of Civil Engineering degree.

Salary envisaged in region £3,000 per annum.

Write, Box 503, "The Builder."

CONTRACTS MANAGER age 25/35 Required by old-established firm of Building Contractors. Position offers good prospects and is pensionable after probationary period. Qualifications should include some previous experience of site supervision and contracts management and A. or L.I.O.B. or H.N.C.—Write brief details of education, experience and salary required to HAMMOND & MILES Ltd., Scrafton-road Works, Ilford.

MANAGER Required for small Kensington Builder's office. Able to function inside and out. Good salary and prospects.—Box 575, "The Builder."

MANAGER

required to take immediate control of a small scaffolding and plant-hire business in S.W. London.

Applicants must have proved and successful experience in sales, estimating, site supervision, costing and office organisation.

Apply in first instance to :—

Box No. 385, "The Builder."

A vacancy occurs for a

MANAGER

to take full control of a newly-formed Dry Partitioning Department with well-known London contractors. Scope for further advancement to the right applicant.

Box No. 561, "The Builder"

LESLIE

& Co. Ltd.

require in their London office a

CONTRACT MANAGER

Applicants must be experienced in the control of contracts of at least £100,000. This post offers very good prospects for a competent man with drive, initiative and personality, interested in modern management techniques and who can produce results.

The position carries an attractive salary, good annual bonus and non-contributory pension scheme. The company operates on a large scale throughout the country with branch offices in Scotland, Darlington, Bradford, Basildon and Hemel Hempstead.

Apply, giving full particulars, to ; the Secretary, **Leslie & Co. Ltd., Peel St., Kensington, W.8.**

CONTRACTS MANAGER

Required to take full control of the Contracts Division of an old established medium-sized Building and Civil Engineering Contractors.

Applicants should have a sound technical knowledge and extensive experience in the management of Contracts. A professional qualification would be an advantage.

A pension scheme is in operation within the organization and the vacancy offers an opportunity with exceptional prospects.

Full details of age, qualifications, experience and salary required to :—

The Managing Director, George Calverley & Sons (Contractors) Ltd., Evington Valley Road, Leicester.

WALTER LLEWELLYN & SONS LTD.,

Plant Department require a DEPOT MANAGER

Duties include control of repair of mechanical and non-mechanical plant, despatching plant to sites, control of transport.

Permanent and pensionable position with expanding organisation.

Apply: Walter Llewellyn & Sons Ltd., 16-20, South Street, Eastbourne.

JOHN LAING AND SON LIMITED

offer interesting and progressive careers to

Men holding
O.N.C., H.N.C. or H.N.D. (Building)
or who are of equivalent standard.

Applicants who are interested in the increasingly important field of

PRODUCTION CONTROL

will find opportunities for development and promotion in departments dealing with Progressing, Site Measurement, Method Study, Labour and Material Control and Analysis.

Encouragement given for study, Superannuation Scheme.

Applications stating age to:—

Personnel Manager (P.C.I), John Laing and Son Limited, London, N.W.7.

The Unit Construction Co. Ltd.,

require a

CONTRACTS MANAGER

who has had wide experience of large building contracts, preferably in the London area. The Contracts Manager will be responsible to the Regional Manager for a group of contracts any one of which may exceed £500,000 in value. Applicants should have held a similar position for not less than three years, must be fully conversant with up to date methods of planning and able to get the maximum co-operation from a team.

Excellent prospects, good salary commensurate with experience, car, Pension scheme.
Apply by Letter only to:

The Personnel Director,
The Unit Construction Co. Ltd.,
Central Way, Faggs Rd.,
Feltham, Middlesex.

AMBITIOUS young man required to **control small works** up to £5,000 for South Coast Contractors, with opportunity to supervise larger contracts when ability proved. Experience in estimating, purchasing materials and labour control, good appearance and address essential. Pension scheme. Living accommodation will be provided if necessary after probationary period.

Box No. 524, "The Builder"

Experienced

CONTRACTS MANAGER

required by well-known London builders. Capable of dealing with contracts up to £500,000. This appointment could eventually lead to a directorship to the successful applicant.

Box No. 562, "The Builder"

CLERKS OF WORKS

CLERK OF WORKS interested in working with active firm of architects is wanted for the responsible position of visiting and reporting on large buildings under construction.—Apply, in writing, GOLLINS, MELVIN, WARD & PARTNERS, 15 Manchester-square, London, W.1.

CLERK OF WORKS Required for office building, Islington. Nine months' contract.—Apply, giving details of experience and salary required, to Box 437, "The Builder."

YOUNG MAN Required by large residential property company in London area to train as CLERK OF WORKS. Preferably some experience in specification writing, estimating, supervision of maintenance and small works. Early promotion and permanent job for right man. Provident scheme in operation.—Write, stating age, experience, salary required, Box 506, "The Builder."

A firm of national contractors operating in the Westminster area require

A SENIOR PERSON

for their Small Works Department.

Applicants should have a thorough knowledge of their job together with good manner and address, and be able to handle works up to £20,000 in value from enquiry to final account. Age 30/35. Full particulars in first instance (which will be treated in the strictest confidence) to:—

The Managing Director **Box No. 544 "The Builder"**

CLERK OF WORKS

Applications are invited from men aged 28 to 40 with at least O.N.C. (Building) or equivalent and experience as Clerk of Works of supervising the erection, modification and repair of industrial buildings. Experience of drawing up schedules of work to be done an advantage.

This staff position is pensionable and the normal working week is 5 days, 40 hours. Commencing salary £800/900 according to qualifications and experience.

Please write stating age, etc. to SP.A Dept.,

MICHELIN TYRE CO. LTD.,
STOKE-ON-TRENT.

CLERKS-OF-WORKS

with experience of steel-framed and reinforced concrete structures required for projects starting in:

LONDON AREA	**(a) NOVEMBER 1960**	**(b) JANUARY 1961**
BEDFORDSHIRE	**(a) NOVEMBER 1960**	**(b) DECEMBER 1960**
MID-LANCASHIRE	**(a) AUGUST 1960**	**(b) NOVEMBER 1960**
GLASGOW AREA	**(a) AUGUST 1960**	**(b) NOVEMBER 1960**

Duration of contracts 12-15 months.

Write, giving particulars of experience and salary required.

Box No. 523, "The Builder"

CLERK OF WORKS Required to supervise erection of five-storey building containing undergraduate accommodation for University College, Oxford. Contract beginning in October, 1960, duration about 18 months.—Applicants, with experience in high quality building, should apply in writing, stating age and experience, to ROBERT MATTHEW & JOHNSON-MARSHALL, F./A.R.I.B.A., 24 Park-square East, Regents Park, London, N.W.1.

CLERK OF WORKS, experienced in building construction. Required for supervision initially on sites in the London area. Salary £1,000 per annum with site allowance if working elsewhere.—Apply in writing with details of age, qualifications and experience to BOLTON, HENNESSEY & PARTNERS, 4 Curzon-place, London, W.1.

CLERK OF WORKS or similar experienced man Required as INSPECTOR at the Precast Concrete Works of THE LONDON FERRO-CONCRETE CO., Ltd. The duties entail responsibility to the Works Manager for accuracy and quality of a wide variety of concrete structural units. Staff position, pension scheme, housing possible.—Applications in writing, giving full details of experience and salary required, to Works Manager, Maxted-close, Hemel Hempstead, Herts.

BUYERS

BUYER Required by expanding firm of Builders engaged in private enterprise estate development. Experience essential in Scheduling Materials for inquiries. Age 25-40.—Write, stating age, experience and salary required, to FEDERATED HOMES, Ltd., 69 East-street, Epsom, Surrey, or telephone Epsom 6121.

A Technical Assistant

for builder's buying department in Cambridge area, capable of taking off materials from drawings for ordering.

Box No. 530, "The Builder"

REPRESENTATIVES

REPRESENTATIVE, London area, to sell Moulding Cutter Heads for Woodworking Machines, to the Joinery Trade. Generous commission.—Box 374, "The Builder."

ROBERTS ADLARD & CO., Ltd., Require for the London area a REPRESENTATIVE having an existing connection with Architects and Surveyors and a specialised knowledge in some or all of the following: Slating, tiling, asbestos and aluminium roofing, over and under purlin linings.—State age, qualifications and salary required, to Secretary, Tweedy-road, Bromley, Kent.

REQUIRED, Freelance REPRESENTATIVES in London and elsewhere, calling on Architects, able to carry additional line of well known nationally advertised high-class panelling material.—Reply, Box 516, "The Builder."

REPRESENTATIVES (two) Required by well-known Builders' Merchants for North West and West London and Kent area. Live connection with Building/Plumbing contractors. H. & V. Engineers. Progressive position, salary, commission, expenses, pension scheme, etc.—Full details of age and experience to Box 528, "The Builder."

EXPERIENCED REPRESENTATIVES,

already calling on woodworking trades and large timber users, required in various areas to sell established line, with large and rapidly expanding potential, of heavy duty fastening equipment, including consumable fasteners. Exclusive territory and generous commission terms offered. State age, experience, territory covered to

Box No. 947, "The Builder"

BUILDERS' ASSISTANTS

BUILDER'S ASSISTANT Required with all-round knowledge of the industry, and anxious to take up either Estimating or Quantity Surveying. Excellent prospects in expanding organisation for keen young man.—Write, R. DURTNELL AND SONS, Ltd., Brasted, Nr. Westerham, Kent.

ASSISTANT for expanding medium-sized Builders carrying out conversions and small works, capable of measuring, preparing time and material A/cs., estimates for minor works. —Write full details age, experience, salary required and when free to H. S. LEE Ltd., 221 St. John's Hill, S.W.11.

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AGENTS

SENIOR AGENTS SENIOR GENERAL FOREMEN

capable of organizing contracts of £250,000 to £1,000,000.

REMUNERATION UP TO £1,800 P.A.

Write in confidence, stating age, experience and qualifications, etc., to

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SIR LINDSAY PARKINSON Require AGENTS and GENERAL FOREMEN for speculative housing and flat contracts.—Please reply, stating trade and experience, to Housing Director, 6 Lambeth-road, London, S.E.1.

SITE AGENT Required for large contract in Hemel Hempstead area consisting of shops, flats, houses, etc. Only first-class men need apply.—Write giving full particulars of experience, age, previous employers, and salary required to Box 559, "The Builder."

Site Agents

and

General Foremen

Sir Lindsay Parkinson & Co. Ltd., invite applications for the above positions. Applicants who must be fully experienced in carrying out major building contracts of all types should forward all details to:

Building Director
Sir Lindsay Parkinson & Co. Ltd.,
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London, S.E.1.

SITE AGENT AND GENERAL FOREMAN

required

Must be experienced in Site Planning, modern methods of construction and organisation, and control of labour, for Contract in Scunthorpe.

Permanent and pensionable position for right man.

Write stating age and experience to

H. Fairweather & Co. Ltd.,
Yorkshire Penny Bank Chambers,
21 Linthorpe Road, Middlesbrough.

Senior SITE AGENTS and GENERAL FOREMEN

required for large housing developments in South East Essex. Applications are invited for these positions from men with proven ability in pre-planning, works study and labour control. The appointments are progressive and a Superannuation Scheme is available. Write in confidence stating age, experience, qualifications and salary required to

Box. No. 564 "The Builder"

GENERAL FOREMEN

required for contracts at St. Albans and Hemel Hempstead, Herts. Applicants must be fully experienced with drive and initiative. Write giving age, experience, and salary required to

C. Miskin & Sons Ltd.,
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FOR GREATER MANCHESTER

We are willing to pay you well if you are an experienced representative who has good connections with Architects and Local Authorities in the area. There is plenty of scope for developing business and success will be amply rewarded. A car is provided and we have a pension scheme.

You do not need technical qualifications—we have experts to support you—but a knowledge of the building trade with ability to discuss technical matters in general terms is desirable.

If you have the entrée to Architects in and around Manchester, you cannot lose anything by writing.

The Secretary, MSC, LANCASTER ROAD, MANCHESTER, 20.

Please state age, education and experience.

TAYLOR WOODROW GROUP

require

AGENTS

Competent men between 35–45 years of age able to take full control of large scale Building and Civil Engineering schemes.

SOILS ENGINEER

Between 25–30 years of age. Preferably with B.Sc. or Diploma in Civil Engineering and with at least two years mechanical and laboratory experience and with some experience of contract work. Preference for single men.

JUNIOR CIVIL ENGINEERS

For road contracts. Successful applicants will be given some training in Soil Mechanics before proceeding overseas. Preference will be given to single men with B.Sc. or Diploma in Civil Engineering. Previous experience of Soil Mechanics desirable but not essential.

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Preferably between 30–40 years of age and with at least four years site experience on Building and Civil Engineering contracts. Must be conversant with interim valuations and final accounts.

Applications to Personnel Manager,

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Building and Civil Engineering Contractors operating on a National scale require a

SITE AGENT

and a

SENIOR GENERAL FOREMAN

for an important contract in the Peterborough Area.

Apply: **Building Manager,**

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SITE AGENTS

Site Agents are required who have been craft trained, had experience on major industrial projects and had control of contracts up to a value of £500,000. Sites to be controlled are all in the Leeds and West Riding area.

The Company has an attractive salary policy and a contract of employment will be offered to the successful candidates at a salary commensurate with their experience.

Apply in writing to:

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Staverton Contractors (Wales) Ltd. require the services of an

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for a large contract in the Swansea Area.

Must be used to reinforced concrete construction and handling contracts to the value of £150,000.

Continuity of employment for the successful applicant, who will, after a probationary period, be invited to participate in our profit sharing and superannuation schemes. Write, giving fullest possible details to :—

The Contracts Manager,

Staverton Contractors (Wales) Limited,

Imperial Buildings, St. Mary Street, Cardiff.

All applications treated in confidence.

FOREMEN AND SUPERVISORS

GENERAL FOREMAN Required.—Apply in the first instance to the Site Agent, BERNARD SUNLEY & SONS Ltd., Crown-lane, Morden, Surrey. Telephone Number CHErrywood 4576.

GENERAL FOREMAN, fully experienced and cost conscious, Required for work in and around the London area. State age, experience and salary.—'Phone or write, W. R. OLDHAM Ltd., 471 Southend-lane, Lower Sydenham, S.E.26.

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JUNIOR BUILDING INSPECTOR. City Engineer's Department, Plymouth. Age not exceeding 40 years, or 45 if serving with a Local Authority. Salary Misc. Grade IV, £590-£650. Permanent superannuable post. Applicants must be fully experienced in the building trade with a knowledge of current prices, experienced in inspecting properties and preparing concise and accurate reports. Knowledge of building regulations and Codes of Practice is required.—Applications, on forms to be obtained from the City Engineer, The Guildhall, Plymouth, Devon, should be returned to him by 13th August, 1960.

GENERAL FOREMAN Required for small flat contract, Crayford, Kent.—Apply RICHARDSON, Herbert House, Slade-green, Erith, Kent.

GENERAL FOREMAN Required for large Municipal flat contract, North Woolwich.—Apply RICHARDSON, Herbert House, Slade-green, Erith, Kent.

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ASSISTANT GENERAL FOREMAN

for high class housing estate. Must be thoroughly competant to supervise construction of domestic dwellings and capable of dealing with sub-contractors. High salary and bonus paid for right results.

Write, stating age, full details of experience and salary, etc.

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If you are qualified by training and you have had experience of recent years in controlling major building contracts from start to finish with a minimum supervision from Head Office, and wish to join the permanent Contract Staff of an old established Company who are expanding their organisation in the Midlands area, we can offer you a position with a good salary and there is a pension and bonus scheme. Only top grade men need apply. Applications in strict confidence to **Personnel Manager,**

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in London and Home Counties for contracts between £100,000 and £500,000 in value.

Must be experienced in all aspects of the trade, possess drive and initiative and up-to-date knowledge of mechanical plant management.

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required to supervise medium-sized Building and Civil Engineering Contracts in the Midlands.

A sound practical knowledge of the industry is essential and the vacancy offers exceptional prospects to a man with drive and organising ability.

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£1,250 P.A.

Senior General Foreman required by Progressive National Builder. Must be prepared to work anywhere in the British Isles.

Write, giving your age and full experience over the last 10 years, stating salary required, to:

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Top grade General Foremen required for several interesting Contracts varying from £50,000—£250,000 only men with first class experience and references need apply to:—

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Applicants must be fully experienced in high class reinforced concrete structures.

Excellent salary in accordance with experience.

Apply stating age and experience together with details of past contracts and previous employers to
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preferably engineer trained with good experience in the control of a number of medium and large sized reinforced concrete contracts essential, together with knowledge of modern methods of construction and planning.

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preferably carpenter trained and with experience in charge of reinforced concrete construction.

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Telephone or write:
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Invite applications for experienced supervisor, car provided.

Please write stating experience and salary required.

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EXPERIENCED COST CLERK Required at once for costing and preparation of Building, Painting, etc., Accounts.—Write stating experience, salary required, etc., to Secretary, TROLLOPE & SONS Ltd., 11a West Halkin-street, S.W.1.

TYPIST for City Chartered Quantity Surveyors' office. Initiative welcome. State experience, age and salary required.—Box 260, "The Builder."

TYPIST AND GENERAL OFFICE DUTIES for Quantity Surveyors, W.C.1.—Experience, age and salary required to Box 914, "The Builder."

COST CLERK Required by Shipfitting Contractors, to final accounts stage.—Apply, by letter or 'phone, to C. I. L., 139-149 Fonthill-road, London, N.4. ARChway 0606. Mr. S. Morris.

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An Experienced male

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BUILDER'S CLERK Required for general duties in West London office. Good opportunity for advancement. Good salary for right man.—Box 576, "The Builder."

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NORTH LONDON. Experienced NEGOTIATOR Required by Property Company for preparation of reports and valuations on all kinds of property. Work mostly of an outside nature and own car essential. Good salary and expenses according to experience.—Box 490, "The Builder."

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aged 30—40 to take complete charge on site of major road and sewerage contracts. The tour of duty is 18 months plus 3 months' leave on full pay. Applicants should be fully qualified in engineering surveying, the use of major plant and site planning, and, if possible, have had some overseas experience.

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The Advisory Service for the Building Industry,
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BES

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General Secretary,
J. W. TILLER, L.I.O.B.,
11j, Marlborough Hill, St. John's Wood, London, N.W.8.
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Advertisers' Index

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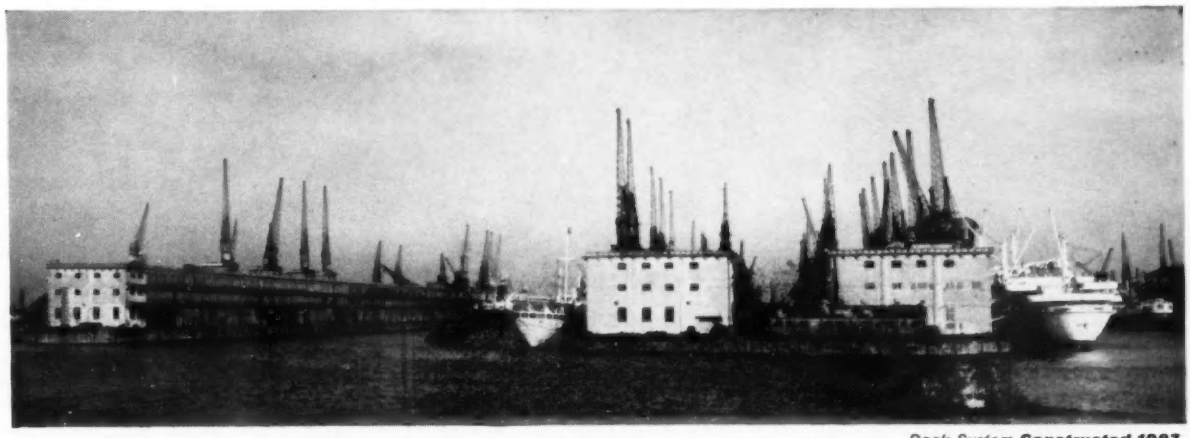
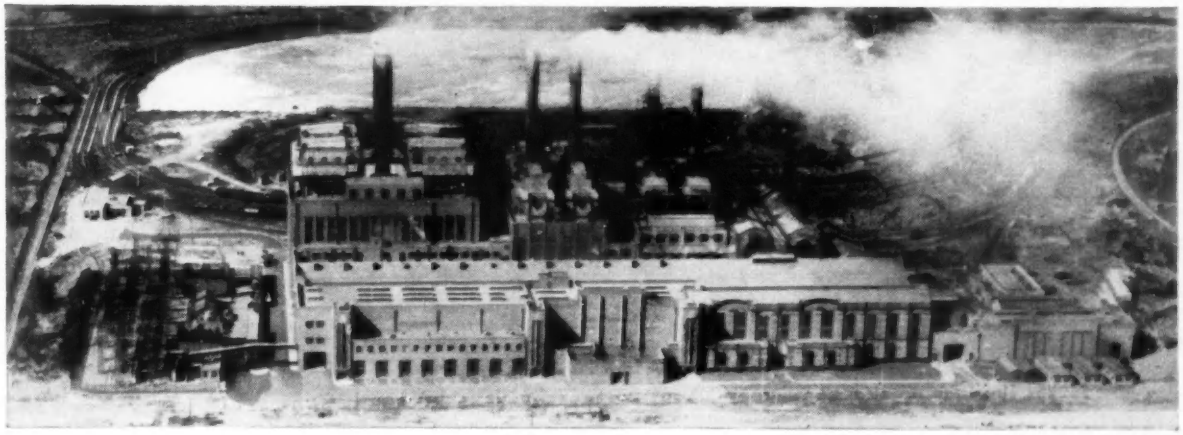
BRC experience



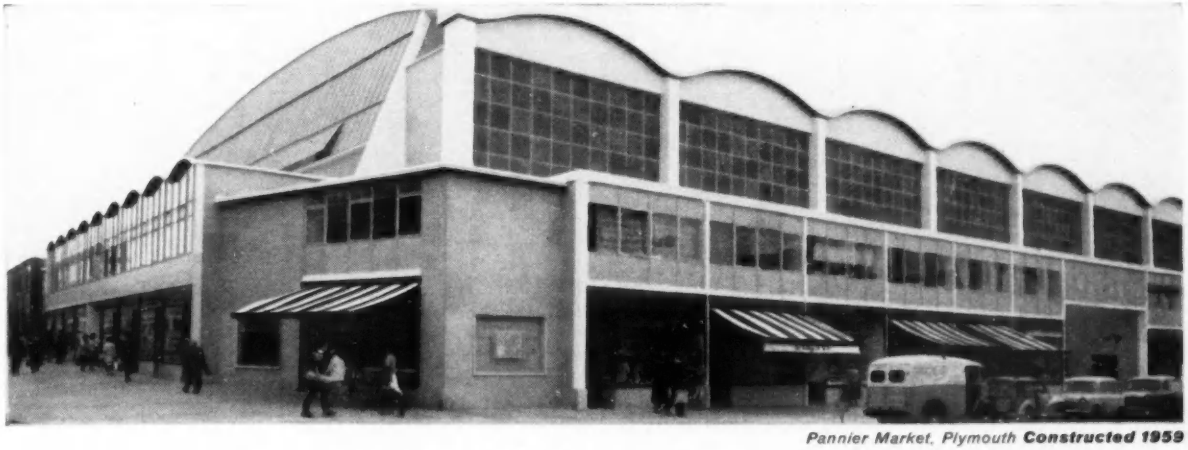
Dock System **Constructed 1927**

in Reinforced Concrete design



North Wilford Power Station **Constructed 1950**

spans the years



Pannier Market, Plymouth **Constructed 1959**

THE BRITISH REINFORCED CONCRETE ENGINEERING CO. LTD., STAFFORD

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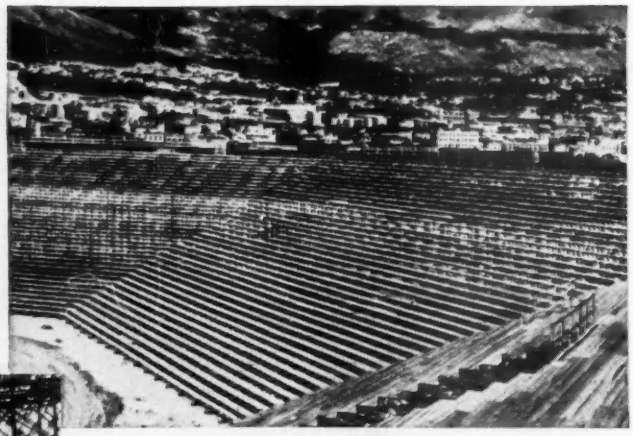

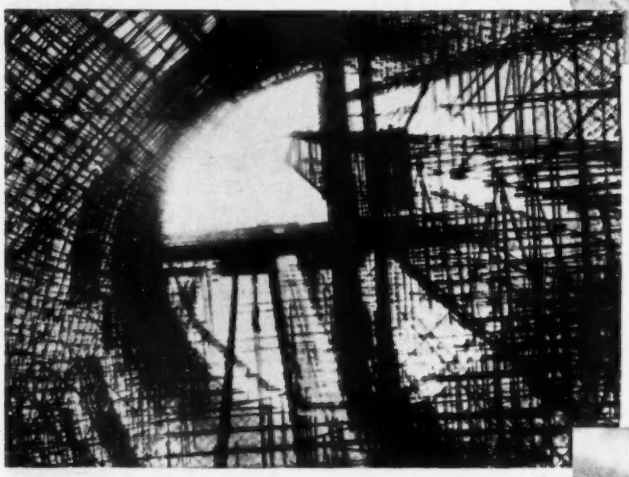

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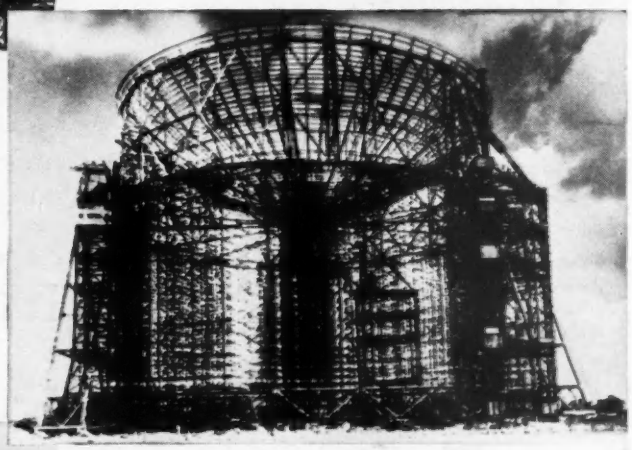

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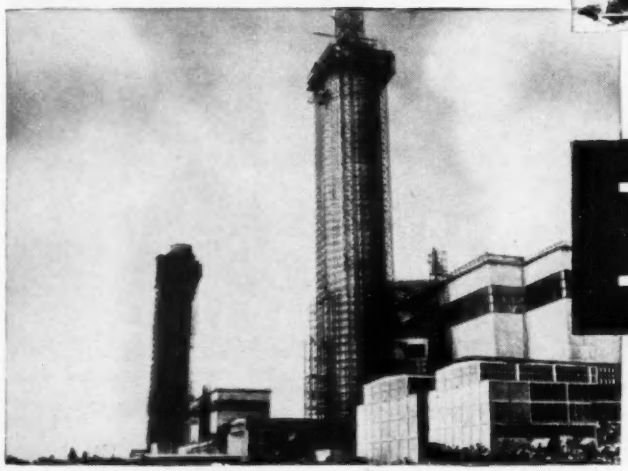

MILLS

MILLS SCAF O. LTD., *A subsidiary of Guest, Keen & Nettlefolds, Ltd.*, Head Office: Trussley Works, Hammersmith Grove, London W.6 (RIVerside 3011)

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